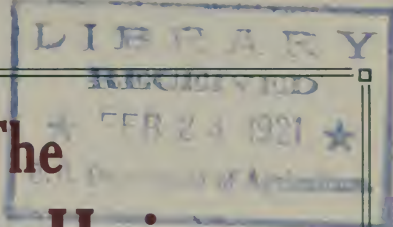


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The Pioneer-Haines Seed Company

1204 Fifteenth Street

Denver, Colorado



Gladiolus

NE PLUS ULTRA QUALITY

(Nothing better beyond)

SEEDS

—SEASON 1921—

To Our Friends

It has been our custom and training for many years to strive to make the year before us better than the one that is past. While we offer no apologies for 1920, having tried to treat each and every customer fairly and honorably so far as lay in our power, yet during the coming year it is our desire to go just a little farther and make a special effort to please and to sell only good live seeds such as will with proper care and attention give the best reward for expended effort.

Our seeds have all been tested in our own "Sho-Gro" Seed Tester and we must know to our own satisfaction that they are satisfactory before they leave our possession.

We comply with our state laws in regard to testing and labelling of field and grass seeds and in buying, this is always before us, to procure the purest stock and the highest in germination that it is possible to obtain.

The smallest item of expense in connection with a vegetable garden is the seed. Therefore, everyone can afford the best, and everything else is rubbish. Never buy seed from the corner grocery or from peddlers. Never plant government free seeds. Such seeds will often sprout well, but the crops of inferior vegetables they produce require the same expense for fertilizers, the same labor of sowing, cultivating, etc., necessary to produce the best quality from the best varieties.

You will find in this book full planting and cultural instructions, under heading of each variety, which should be valuable to all. These instructions are given as they should be applied by planters in this climate and altitude.

Our prices will be found to be much lower than for many years past and considering quality we do not think any reliable seed house will be able to supply good seeds for less money.

If you are a large buyer, send us a list of your requirements and allow us to quote you our special quantity prices.

If you want only a 5c package, you will want good seeds so send in your orders to

THE PIONEER-HAINES SEED CO.

RUFUS BROWN, President

Denver, Colo.

ANNUAL CATALOGUE

OUR PURPOSE: To have the best of everything; to send out a neat, attractive catalogue with truthful illustrations and descriptions; to be prompt; to be courteous; to be satisfied with small profits; to be honorable in our dealings, and to treat every customer so that he will want to order again. In short, to treat him as we would like to be treated.

OUR TERMS ARE CASH WITH ORDER. Send Postoffice or Express Money Order, Postal Note, Bank Draft, or Registered Letter. Small amounts may be in postage stamps.

C. O. D. We will send goods C. O. D. where one-third the amount of the bill accompanies the order. No plants or perishable goods will be sent C. O. D.

HOW TO ORDER. Always write your name, postoffice, state and express office plainly and if possible use the order sheet. Always carry out the price of each item, and keep a copy of your order.

CUSTOMERS TO PAY FREIGHT OR EXPRESS on all goods unless they are offered postpaid.

NO CHARGE FOR PACKING OR PACKAGES. Everything will be securely packed and labeled and delivered free at the Freight Express or Post Office, without extra charge for packages, except for a few items like clover seed, where bags are extra, as noted in the catalogue.

PREPAID STATIONS. If there is no agent at your railroad station the freight has to be prepaid, and in such cases we must request you to send money with your order to cover the amount.

ORDER EARLY. Do this for two reasons. We can give your order more careful and prompt attention if received before we get into the rush of the spring shipping, and our assortment is complete then and we will not have to write for permission to substitute for varieties sold out.

SEEDS BY PARCEL POST

SEEDS BY PARCEL POST:—Parcel Post rulings make it possible to transport large orders of seed by Parcel Post. We believe it advisable to have your seeds come by Parcel Post when possible. Packages weighing 70 lbs. can be sent into the 1st, 2nd, and 3rd zones and 50 lbs. is the weight limit to the farther zones.

Please remember that even though your package weighs only a fraction of an ounce over one pound, you must pay postage on a full extra pound. In remitting to cover postage, enough must be sent to cover the postage on packing, etc. If your package weighs more than one pound and less than ten pounds, figure one pound extra for packing. If the package weighs ten pounds or more, remit for two pounds of packing. We pay the charges on all items marked postpaid or prepaid.

THE RATES OF POSTAGE ARE AS FOLLOWS

1st and 2nd zone, 5c for the first lb. and 1c for each additional lb.
3rd zone, 6c for the first lb. and 2c for each additional lb.
4th zone, 7c for the first lb. and 4c for each additional lb.
5th zone, 8c for the first lb. and 6c for each additional lb.
6th zone, 9c for the first lb. and 8c for each additional lb.
7th zone, 11c for the first lb. and 10c for each additional lb.
8th zone, 12c for the first lb. and 12c for each additional lb.

Packages must not be greater in size than 84 inches in length and girth combined.

Packages may be insured against loss, rifling and irreparable damage upon payment of a fee of 3 cents for value not exceeding \$5.00, or 5 cents for value not exceeding \$25.00, or 25 cents for value not exceeding \$100.00, for each package in addition to the postage.

For a fee of 1 cent for each package, a receipt will be issued. This fee does not insure the package against loss.

If you desire your packages insured, or receipted for, send the insurance or receipt fee, in addition to the amount you send to pay for the goods and shipping charges—and be sure to mention same on your order.

Liquids, poisons and bad odor articles cannot be mailed.

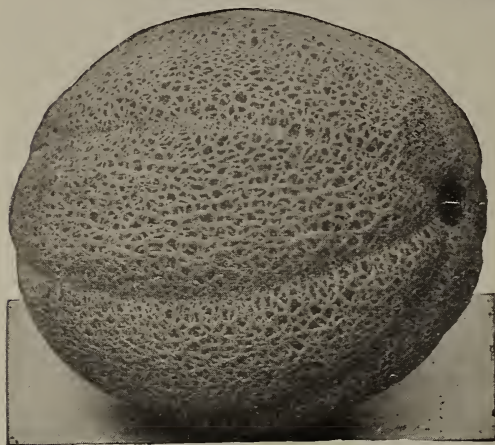
THE PIONEER-HAINES SEED COMPANY
1204 FIFTEENTH STREET, DENVER, COLORADO

**FIFTY-SIX YEARS BEFORE THE PUBLIC IN
COLORADO**

Specialties and Novelties

MUSKMELONS

Pollock No. 10-25 Salmon Tint



The latest and by all odds the most successful of any introduction. A selection from the Pollock 25 Salmon Tint. It is the most profitable melon now known. So uniformly good that all melons grown are salable, thus making it popular with the grower. It packs well and carries well, arrives in the best of condition and outsells all others. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 50c.

Gold Lined Rocky Ford

This new melon is the result of several years of careful selection by one of Rocky Ford's most progressive growers. The shape is ideal, being slightly oval, has no ribs, and is heavily netted over the entire surface. The melon is thick meated from end to end, fine grained and sweet. Color green, with a gold margin or lining next to the seed cavity. Very attractive, both as to outward appearance and when cut. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.50.

Bantam Evergreen Sweet Corn

By far the finest Sweet Corn ever produced. Has the sweetness of the Golden Bantam combined with the larger cobs of the Evergreen. Matures after Golden Bantam. Try it this year and you will always want it.

A cross between Golden Bantam and Stowell's Evergreen and a most excellent sort of superior quality. Grain rather broad and deep, and of a rich golden yellow color. Pkt. 5c; $\frac{1}{2}$ lb. 20c; lb. 35c.



NEW TOMATO, JOHN BAER



This is a fine, smooth, Tomato, of medium size, bright scarlet in color, almost globular in shape, slightly flattened at the stem and blossom ends. The fruit is very solid and the seed cavities medium small. It has proved to be a very prolific Tomato

and quite early. In earliness it is noticeably ahead of the early varieties, Bonny Best and Chalk's Early Jewel and is somewhat similar to them in general characteristics. For abundance of crop is one of the most prolific. It is a grand all-round Tomato and we recommend it highly. Pkt. 10c; oz. 50c; $\frac{1}{4}$ lb. \$1.50; lb. \$5.00.

NEW YORK LETTUCE

The king of main crop head lettuces. Immense heads as solid as a cabbage. Blanches beautifully; crisp, tender and free from



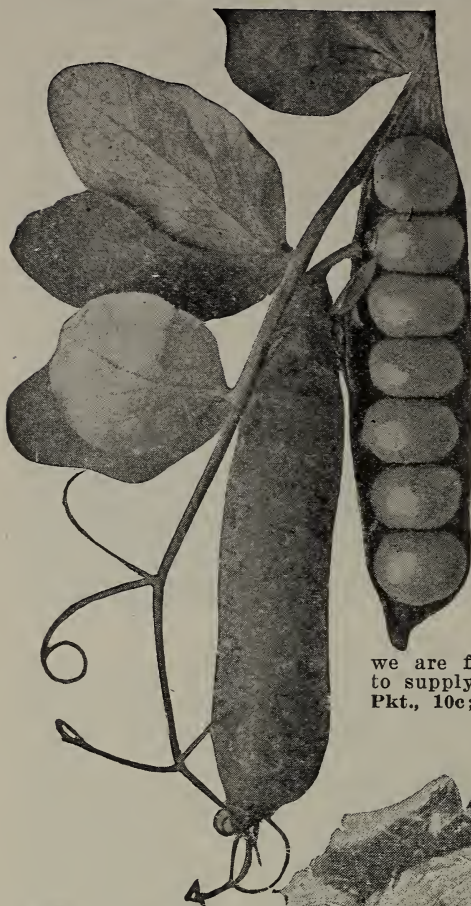
bitterness. It produces immense heads, often 15 and 16 inches across and weighing enormously. The interior is beautifully blanch-ed, creamy white, crisp, tender, and delicious, being absolutely free from any trace of bitterness. It is a very large, robust growing variety, rooting deeply, resisting hot, dry weather, very slow to run to seed, and a sure header under most trying conditions. The outer color is of

a distinct apple green. As a standard main summer crop, hot weather lettuce, it is in every way desirable, and has no equal, but it is not recommended for forcing. Price, pkt., 10c; oz., 50c; $\frac{1}{4}$ lb., \$1.50; lb., \$4.50.

VICK'S SCARLET GLOBE RADISH

This grand radish has established a good reputation as a forcing sort. Its peculiarity is that it will bear the heat requisite for forcing without becoming pithy in character or suffering injury to its flavor. Its attractive shape is shown in the illustration. Its color is a rich scarlet. It has a small top and is a high-bred radish. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., \$1.10.





Richard Seddon Peas

18 inches. A variety of exceptional merit. In season about the same time as American Wonder. The vines and pods of Richard Seddon pea are dark green in color. The latter are well filled with large, sweet peas of finest flavor. It has proven a sure cropper and is sure to meet with universal favor. This was one of our best sellers prior to the war. Have been unable to get the seed for past two years, but a shipment has just arrived from New Zealand and we are fortunate in being able to supply this grand pea again. Pkt., 10c; $\frac{1}{2}$ lb., 20c; lb., 40c.

This cabbage is almost identical in every respect with Danish Ballhead except in its color. The head is very solid and the rich red color extends farther into the center of the head. True seed of this variety is difficult to obtain and in price outclasses all others. However, the quality of the cabbage far more than evens up the difference in price. Pkt., 10c; oz., 50c; $\frac{1}{4}$ lb., \$1.75.



RED DANISH STONEHEAD CABBAGE

EARLY DETROIT TOMATO

After growing this Tomato for several years, we are convinced that it is the best early variety for home use and also valuable for the market gardener. The vines make a strong and vigorous growth, and fruits set and ripen early, continuing to do so throughout the entire season. The size is medium to large, shape nearly round, perfectly smooth and skin purplish pink. The fruits are very solid and seldom crack, and vines are remarkably free from attacks of blight, thus Tomato introduced in repurplish-pink sorts. Pkt.,



making it the most desirable early cent years and the best of the early 10c; oz., 45c; $\frac{1}{4}$ lb., \$1.25.

KENTUCKY WONDER WAX POLE BEAN



A yellow podded "Kentucky Wonder", which bears a large quantity of rich, golden yellow pods from the time the plant is about half grown until it is killed by frost in the fall. The plant makes a quick, healthy growth, and, like the "Kentucky Wonder", it is exceedingly productive, bearing large pods which are thick, meaty, stringless, very tender, and have a fine flavor when cooked. This variety is bound to gain in favor, both for the home garden and for market. Pkt., 5c; $\frac{1}{2}$ lb., 25c; 1b., 45c.

PETER PAN PEAS

The Best Large Podded Dwarf Extra Early Pea.

This splendid new pea of the Laxtonian type is considered the best of its class in point of earliness, productiveness and size of pod. The dark green, sturdy vines grow 15 to 18 inches in height, and are wonderfully productive of handsome, large, dark green, pointed pods, which measure 4 to $4\frac{1}{2}$ inches in length, and contain nine to ten deep bluish-green, sweet wrinkled peas of the highest quality. Peter Pan matures a trifle earlier than Gradus, with a pod equally large. Pkt. 5c; $\frac{1}{2}$ lb., 25c; 1b., 45c.



PIMIENTO PEPPER

This is the sweetest pepper grown, as it does not contain the slightest trace of fieriness. The plants are extremely productive, and Peppers are medium in size and of a shape which is desirable for filling, and when prepared in this manner they are delicious. It may also be used in preparing salads and for flavoring, in which case it will add a fresh and delightful flavor. The flesh is quite thick, and the Pepper may be scalded for peeling the skin off. When fully ripe the Peppers are of a brilliant red color and very attractive. Pkt., 10c; $\frac{1}{2}$ oz., 30c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.



GIANT LUCULLUS SWISS CHARD



The Swiss Chard or Spinach Beet, is prepared for the table in the same manner as Spinach; sometimes, however, the midrib is prepared like Asparagus, with drawn butter. Seed planted early in the spring will quickly produce plants from which cuttings may be made all summer as you can cut right down to the ground, and new shoots will soon spring up and make a fast growth, while those plants which are allowed to grow on without any cutting will make large, curly leaves, with thick, light colored mid-ribs, which are delicious when cooked and served like Asparagus. "Giant Lucullus" is the largest and best variety of Swiss Chard, and you should not fail to

plant at least one long row in your garden this spring. Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 50c; lb., \$1.75.

HONEY DEW MUSK MELON

A Delicious New Melon

Its name has been well chosen, as it is about as sweet as honey. The average size is about six inches in diameter, and they weigh five to six pounds. The skin is smooth with little netting, and of creamy yellow when ripe. The flesh is a beautiful green next to the outside rind shading to a light green at the center. It is very thick, melting, fine grained, and can be eaten almost to the rind and the seed cavity is quite small. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.75.



GOLDEN BEAUTY CASABA

Early fruits that ripen continuously from July on till frost comes. The later fruits can be stored in a cool house or cellar and will ripen slowly, so that they can be marketed from time to time until late in January. Golden Beauty is bright yellow, about globular, with wrinkled skin, slightly pointed at the stem end. The fruits are about six to eight inches in diameter. The flesh is pure white and very thick. Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 60c; lb., \$1.75.

LEMON CUCUMBER

A cucumber which you can eat fresh from the garden like a radish is a novelty. Lemon Cucumbers are little, round, and delicious. They are eaten just that way. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.25.

FANCY SWEET PEAS



Sweet Peas are among the most beautiful of all our hardy annuals. Select a sunny, open place, several feet from any building, or close fence, and as far as possible from large trees. Sow as early in the spring as possible. Plant in double rows 6 inches apart and 4 inches deep, 1 oz. to 4 feet of double row. Furnish support early. In dry weather water freely and keep the flowers picked closely. If you allow them to produce seed pods the plants will soon stop flowering.

PIONEER LARGE FLOWERING ORCHID VARIETIES

Helen Lewis Spencer. Standard Crimson Orange, wings orange rose.

King Edward VII Spencer. Bright scarlet; very large flowers of open form.

Prince Edward of York Spencer. Brilliant rosy red. Flowers unusually large.

Mrs. Walter Wright Spencer. Beautiful shade of mauve, very large hooded.

Queen Alexandria Spencer. Bright scarlet, of finest form and semi-hooded.

Ramona Spencer. Standard pure white with carmine and bluish stripes.

Senator Spencer. Standard maroon, wings violet and blue, striped white.

White Spencer. A pure wavy white of enormous size, on long stems.

Prices any of above, pkt., 15c; ½ oz., 35c; oz., 60c.

Aurora Spencer. Brilliant orange, rose striped on white. Very large, bold flower.

Black Knight Spencer. Dark maroon, rich, large flower.

Brilliant Blue Spencer. Very large blue flower of finest form.

Blanche Ferry Spencer. Identical with the old favorite, but with immense wavy flowers.

Countess Spencer. A lovely clear pink, deeper at the edges, the original of this type of sweet peas.

Dainty Spencer. Very large flowers, waved, pure white with pink.

Florence Morse Spencer. Delicate blush with pink edge. Charming flower.

Geo. Herbert Spencer. Bright, rosy carmine, very showy, large flower.

Henry Eckford Spencer. Almost a clear orange, large flower, very fine.

John Ingman Spencer. Rose carmine, very large flower, hood form.

Mrs. Routzan Spencer. Soft chamois pink, beautiful shade, charming.

Mrs. Chas. Mander Spencer. Purplish magenta, large flower, wavy edges.

Phenomenal Spencer. White, shaded and edged with lilac. Very large.

Primrose Spencer. Light Primrose. Large flowering of best form.

Princess Alice Spencer. Light, rosy mauve, large sized flower.

Queen Victoria Spencer. A superb black-seeded primrose of immense size.

E. J. Castle, Unwin Type. Bright, rosy crimson, large, open form. Wavy.

Frank Dolby, Unwin Type. Lavender and pink mauve, large and wavy.

Gladys Unwin, Unwin Type. Clear, bright, light pink, darker at edge. Wavy.

Helen Pierce, Unwin Type. Pure white, veined and mottled with blue.

Mrs. Alfred Watkins, Unwin Type. Large, open and wavy form. Color, peach blossom.

Nora Unwin, Unwin Type. Pure white, very large, open form, wavy.

Captain of the Blues. Pure purple, the margin of the petals is marbled. Very large and distinct.

Othello Spencer. Of immense size, with large, drooping wings, rich maroon. One of the best dark sweet peas.

Apple Blossom. Bright rose, wings primrose.

Asta Ohn. Soft lavender suffused with mauve.

Marie Corelli. A splendid rosy carmine.

King White. Gigantic, pure white.

Illuminator. Rich salmon orange.

Meriam Beaver. Shell salmon pink.

Dobbie's Cream. Beautiful primrose colored flowers.

New Buttercup. Fine deep cream, large waved flowers. Very fine. Pkt., 10c; $\frac{1}{4}$ oz., 25c; $\frac{1}{2}$ oz., 40c; oz., 75c.

Flora Norton. Bright blue, tinted purple.

The Cardinal. New, intense poppy scarlet. Pkt., 10c; $\frac{1}{4}$ oz., 25c; $\frac{1}{2}$ oz., 40c; oz., 75c.

Margaret Atlee. Most beautiful deep cream pink sweet pea. Color warm salmon pink perfectly suffused over cream ground.

Sterling Stent. Rich, deep salmon.

Margaret Madison. Clear, azure blue.

Purple Prince. One of the best.

Prices of above, unless otherwise noted; Pkt., 10c; $\frac{1}{2}$ oz., 25c; oz., 40c.

STANDARD GRANDIFLORA VARIETIES

All are large flowering and the best of their class. Prices for any of the following named varieties: Large packet, 5c; oz. pkg. 10c; six of the 1-oz. pkgs., all different, for 50c; $\frac{1}{4}$ lb., 40c. All postpaid.

WHITE

Dorothy Eckford. Best pure white, semi-hooded, with large white wings.

Emily Henderson. Pure white, large size, open form.

Blanche Burpee. Pure white, somewhat over medium size, hooded form.

PALE YELLOW OR PRIMROSE

Hon. Mrs. Kenyon. A grand primrose yellow.

Sybil Eckford. Standard light apricot, wings cream and lemon.

Stella Morse. Deep cream, blush pink edges.

LIGHT PINK

Prima Donna. Lovely shade of soft pink.

Lovely. Soft shell pink. Extra fine.

Katherine Tracy. Standard soft pink, wings a trifle lighter.

Sensation. Light pink and buff.

ROSE SHADES AND PINK

Prince of Wales. Bright rose, long stem, free-flowering.

Hon. F. Bouverie. Deep pink shading to lighter.

ORANGE, PINK AND SALMON

Miss Wilmot. Large orange pink.

Aurora. Orange rose, striped on white.

LAVENDER AND MAUVE

Lady Grisel Hamilton. Best of all lavenders.

Mrs. George Higginson, Jr. Light lavender, almost azure blue.

Admiration. Delicate pinkish lavender.

BLUE AND PURPLE

Flora Norton. Bright, clear blue.

Navy Blue. New deep, violet blue.

Captain of the Blues—Standard bluish purple, wings clear blue.

DEEP MAROON

Othello. Dark maroon, with veins of almost black.

Shahzada. Dark maroon and violet.

STRIPED AND VARIEGATED

Gray Friar. Heliotrope, marbled or dusted on white.

America. Crimson scarlet, striped on white.

SCARLET AND RED

Salopian. Deep crimson; best of all dark reds.

Fire Fly. Brightest crimson scarlet.

King Edward VII. Bright red or crimson scarlet.

Pioneer Superb Mixture. Composed of about 50 of the finest named varieties, containing the cream of the novelties and fancy sorts. Price, pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.25; postpaid.

PEACH OR GARDEN LEMON

The fruit is about the size of a large peach, oval-shaped and of a bright orange yellow color, somewhat russeted. When it first ripens it is quite hard and has very little flavor, but they soon become mellow, not sweet, and have a rich flavor, but for sweet pickles, pies or preserves, they are superb. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.25.

List of Vegetable Seeds

Postage—When Beans, Peas and Corn are wanted by mail, add 5c per pound postage.

ARTICHOKE

Sow in April in rich soil, transplant the following spring to permanent beds, in rows 3 feet apart and 2 feet between the plants. Only a partial crop can be gathered the first season, but as it is a perennial the beds will remain in bearing for years. Protect in winter by a covering of leaves or coarse manure.

Large Green Globe. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 80c.

Jerusalem. Tubers in season, 10c per lb.

Write for special prices on quantities.

ASPARAGUS

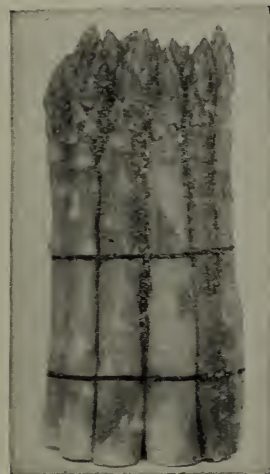
To grow plants from seeds, sow in drills about 1 inch deep in rows 1 foot apart. Keep the soil mellow and free from weeds; during the summer thin out and the following spring plants may be set in rows 3 feet apart, 12 to 15 inches apart in the row, 4 inches below the surface. Annually, after cutting, the bed should be given a liberal top dressing of manure, which should be thoroughly cultivated into the soil. As soon as the tops turn yellow in the fall they should be cut and removed from the beds, and just before winter cover the beds with 4 inches of coarse straw, manure or leaves, which should be removed in the spring. A bed 6x40 feet is ample for an ordinary family, and when well established is good for twenty years. One ounce of seed will sow 60 feet of drill. About 400 plants to the ounce.

Early Giant Argenteuil. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

Conover's Colossal. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

Palmetto. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

Columbian Mammoth White. Pkt.,



5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

BROCCOLI

Nearly allied to the Cauliflower, but more hardy. The seed should be sown in the early part of May, and transplanted in June. It succeeds best in a moist and rather cool atmosphere.

Early Large White. Very early; heads solid, firm and of most delicious flavor. Pkt., 5c; oz., 50c; $\frac{1}{4}$ lb., \$1.50.

BRUSSELS SPROUTS

This is one of the best vegetables for winter use, producing from the axils of the leaves an abundance of sprouts resembling small cabbages; of excellent, mild flavor. One ounce produces 1,500 plants.

Tall French. Very fine variety and very tender. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 75c.

Improved Dwarf. A variety producing compact sprouts of excellent quality. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 75c.

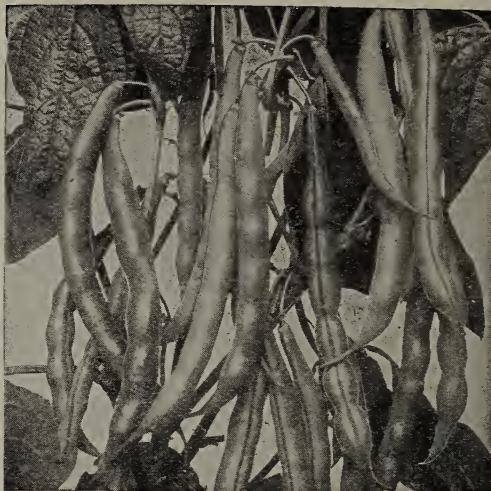
BEANS—DWARF

(Not Postpaid)

Earliest varieties ready for table in 40 days. One pound to 50 feet of drill; 80 lbs. to the acre.

Beans are extremely sensitive to both cold and wet, and it is useless to plant them before the ground has become dry and warm. The largest returns will result from planting in drills from 2 to 3 feet apart and leaving the plants 2 to 6 inches apart in the row. Up to the time of blossoming they should have frequent shallow cultivation. Never hoe when the vines are wet, as the pods become discolored.

Green Podded Varieties		Lb.	2 Lbs.
Stringless Green Pod, early		\$0.35	\$0.65
Bountiful, stringless .....		.35	.65
Early Yellow Six Weeks, flat pod .....		.35	.65
Improved Red Valentine, round pod .....		.35	.65
Refugee—1,000 to 1, early .....		.35	.65
Shipper's Favorite (Longfellow) .....		.35	.65
Dwarf Horticultural, or Bush Cranberry .....		.35	.65
Early Mohawk, six weeks .....		.35	.65
Colorado Butter, very large .....		.40	.75



Yellow Podded Varieties.			
Improved Golden Wax, flat pod .....		.35	.65
Wardwell's Kidney Wax, long .....		.35	.65
Davis' White Kidney Wax, early .....		.35	.65
German Dwarf Black Wax .....		.35	.65
Refugee Wax, early .....		.35	.65
Black Wax Pencil Pod, best black (shippers') .....		.35	.65
Flageolet Wax, purplish .....		.35	.65

BEANS—POLE

Kentucky Wonder, green pod (Old Homestead)....	.35	.65
Kentucky Wonder, wax pod (See page 5)		
Lazy Wife, stringless .....	.35	.65
White Creaseback, stringless .....	.35	.65
Dutch Case Knife, long, green .....	.35	.65
Golden Cluster Wax, yellow pod .....	.35	.65
Tall Horticultural, Speckled Cranberry .....	.35	.65
Any above Beans, Pkt., 5c; ¼ lb., 15c; ½ lb., 20c.		

BEANS—LIMA

Large White Lima .....	.45	.85
Burpee's Bush Lima .....	.45	.85
Fordhook Bush Lima .....	.45	.85

PEAS



Telephone Peas

the smooth sorts and should be planted later, owing to their liability to rot in the ground. They are much superior in flavor to the smooth peas. Dwarf varieties sow in rows one foot apart, and taller sorts from 2 to 3 feet apart. For succession of dwarf varieties, plant Nott's Excelsior, Everbearing and Telephone.

Northern grown.
One pound to 50
feet of drill; 90
to 120 lbs. per
acre.

For first early
peas sow in a
light, rich soil,
as early in March
or April as the
ground can be
worked; for later
varieties, sow in
April or May. As
soon as sufficient
growth has been
made, draw the
earth about the
vines. The wrink-
led varieties are
not so hardy as

	Lb.	2 lbs.
Alaska, very early	\$0.35	\$0.65
Tom Thumb, early dwarf .....	.40	.75
Richard Sedden, very dwarf and sweet (See page 4)		
Little Gem, early wrinkled .....	.40	.75
Gradus, early, large .....	.40	.75
Laxtonian, large dwarf, early dwarf .....	.45	.85
Peter Pan, large podded early dwarf .....	.45	.85
American Wonder, dwarf .....	.40	.75
Nott's Excelsior dwarf .....	.40	.75
Premium Gem, medium .....	.40	.75
Dwarf Telephone, large .....	.45	.85
Stratagem, tall, late .....	.40	.75
Everbearing, tall, late .....	.40	.75
Yorkshire Hero, late .....	.40	.75
Alderman, large, late .....	.40	.75
Telephone, large, late .....	.40	.75
Dwarf Gray Sugar .....	.35	.65

Any above Peas, Pkt., 5c; $\frac{1}{4}$ lb., 15c; $\frac{1}{2}$ lb., 25c.

When more than 10 lbs. of Peas are wanted, write for price.

SWEET CORN

(Not Postpaid)



One lb. to 200 hills; 10 lbs. to the acre. In an average season from planting to first fair picking is from 55 to 85 days, according to variety.

Sweet Corn, being liable to rot in cold, wet ground, should not be planted before May, or until the ground has become warm; practically nothing is gained in time, and much is lost in quality, by planting too soon. Plant in rich ground in hills 3 feet apart each way, covering about half an inch and thin out to three plants to a hill. The extra early varieties can be planted closer. Give frequent and thorough but shallow cultivation until tassels appear.

	Lb.	2 lbs.
Peep o' Day, very early	\$0.35	\$0.65
Golden Bantam, true stock .....	.35	.65
Early Mayflower, .....	.35	.65
Bantam Evergreen (See page 2)		
Howling Mob, early .....	.35	.65
Country Gentleman, medium .....	.35	.65
Stowell's Evergreen, select .....	.35	.65
Early Evergreen, medium .....	.35	.65
Mammoth White Cory, early .....	.35	.65
Early Minnesota .....	.35	.65
Early White Cob Cory .....	.35	.65
Perry's Hybrid, medium .....	.35	.65
Black Mexican, very sweet .....	.35	.65
Adams' Extra Early, smooth .....	.25	.45

Any above Pkt., 5c; $\frac{1}{2}$ lb., 20c.

BORECOLE OR KALE

	Pkt.	Oz.	$\frac{1}{4}$ -lb.
Dwarf Green German	\$0.05	\$0.30	\$0.90
Tall Green Curled or Scotch .....	.05	.25	.75
Sea Kale (Crambe Maritima) pkg., 10c; oz., 30c.			

BEETS



TABLE VARIETIES

One ounce to fifty feet of drill; 6 to 8 pounds per acre in drills. The early turnip varieties are ready for table in from 50 to 60 days from sowing seed.

The best results are obtained on a deep, rich, sandy loam, in freshly prepared soil, which should be pressed firmly over the seed.

Sow in drills 18 inches apart and thin to 3 inches in the row. For winter use the turnip varieties may be sown in June, and the beets may be kept by storing in a cellar and covered with sandy soil to prevent wilting.

	Pkt.	Oz.	¼-lb.	Lb.
Extra Early Egyptian, dark.....	\$0.05	\$0.15	\$0.40	\$1.25
Eclipse, early .....	.05	.15	.40	1.25
Early Flat Bassano .....	.05	.15	.40	1.25
Crimson Globe .....	.05	.15	.40	1.25
Early Blood Turnip, improved .....	.05	.15	.40	1.25
Detroit Dark Red, turnip shape .....	.05	.15	.40	1.25
Edmunds Early Blood Turnip .....	.05	.15	.40	1.25
Half Long Blood .....	.05	.15	.40	1.25
Long Blood Red .....	.05	.15	.40	1.25
Columbia or Trevis .....	.05	.15	.40	1.25
Swiss Chard, or Silver Sea Kale.....	.05	.15	.40	1.25
Swiss Chard, Lucullus .....	.10	.20	.50	1.75

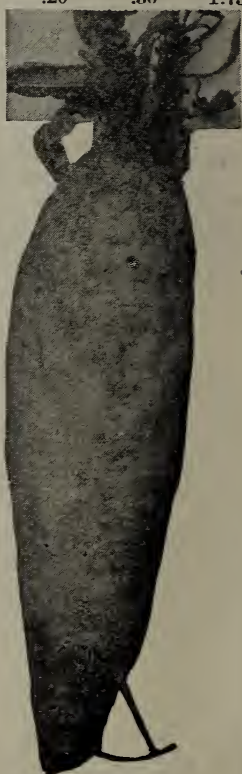
BEETS FOR STOCK AND SUGAR

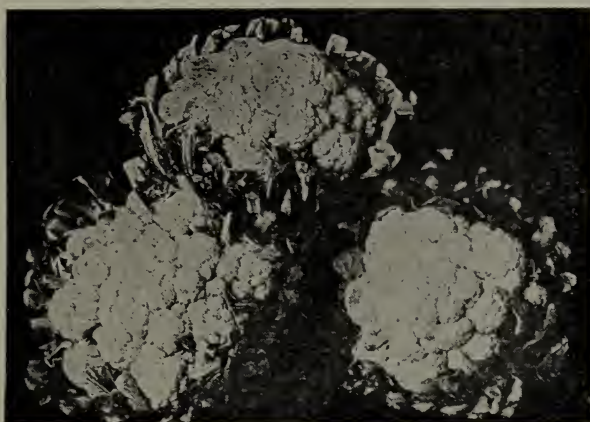
One ounce will sow 50 feet of drill; 6 to 8 pounds per acre. 140 to 150 days are required from sowing to maturity.

Mangels grow to a larger size and will produce a greater bulk of roots per acre than sugar beets, but the latter are richer in quality and superior in feeding value. Sow in April to June, in rows 18 inches to 2 feet apart, and thin to 8 inches in the rows.

	Pkt.	Oz.	¼-lb.	Lb.
Giant Half Sugar Mangel.....	\$0.05	\$0.10	\$0.25	\$0.85
Golden Tankard Mangel, yellow .....	.05	.10	.25	.85
Giant Long Red Mangel, red....	.05	.10	.25	.85
Yellow Ovoid Mangel .....	.05	.10	.25	.85
Yellow Globe Mangel .....	.05	.10	.25	.85
Danish Sludstrup, white .....	.05	.10	.25	.85
Klein Wanzleben Sugar (Elite) .....	.05	.10	.25	.85
Red Top Sugar .....	.05	.10	.25	.85
Lane's Imperial Sugar .....	.05	.10	.25	.85

Larger lots quoted on application.





CAULIFLOWER

All our Danish seed is Grower's First Quality Seed.

One ounce to 1,500 plants. Ready for table in 160 to 175 days from seed.

These need a deep, rich, moist soil and require the same treatment as cabbages. For early summer varieties seed should be sown in hotbed early in March; transplant when weather is warm. For late or autumn varieties sow in March or April, transplant in June; hoe often.

	Pkt.	1/4-oz.	Oz.
Extra Early Danish Snowball	\$0.15	\$1.00	\$3.00
Early Paris .....	.15	1.00	.....
Danish Giant or "Dry Weather" .....	.15	1.00	3.00
Autumn Giant .....	.10	.50	1.25
Extra Early Dwarf Erfurt .....	.15	1.00	3.00

Cauliflower plants will be ready in April.

CUCUMBER

One oz. for 50 hills; 2 to 3 lbs. to the acre. Earliest varieties ready for table in 50 to 55 days from seed. Main crop in 65 to 75 days.

As soon as the weather becomes settled and warm, plant in hills 4 to 6 feet apart each way, with 8 to 10 seeds in a hill; cover half an inch deep, smoothing the hill off with the hoe. Keep the soil well stirred and when the plants are out of danger of insects, leave 3 to 4 plants to a hill. For pickles, plant from first of June to first of August. The fruit should be gathered when large enough, whether required for use or not, as, if left to ripen on the vines, it destroys their productiveness. A few hills for early use may be had by sowing on pieces of sod in a hotbed, and when warm enough transplant to open ground.

	Pkt.	Oz.	1/4-lb.	Lb.
Klondike, white core	\$0.05	\$0.10	\$0.35	\$1.25
Davis Perfect, white core .....	.05	.15	.45	1.35
Improved White Spine .....	.05	.10	.35	1.25
Improved Long Green .....	.05	.10	.35	1.25
Early Cluster, small .....	.05	.10	.35	1.25
Cool and Crisp .....	.05	.10	.35	1.25
Fordhook Famous .....	.05	.10	.35	1.25
Snow's Perfection Pickle .....	.05	.10	.35	1.25
Chicago, or Westerfield Pickling .....	.05	.10	.35	1.25
Boston Pickling .....	.05	.10	.35	1.25
Japanese Climbing .....	.05	.10	.35	1.25
West India Gherkin (bur) .....	.05	.15	.45	1.35
Lemon Cucumber, late				

(See Page C).

Everbearing .....	.05	.10	.35	1.25
Green Prolific .....	.05	.10	.35	1.25
English Frame—Telegraph, in original pkts., 50c.				



CABBAGES

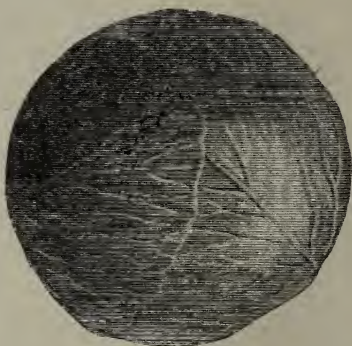


Ready for table in from 100 to 160 days from seed, according to varieties. One oz. to 1,500 plants; 4 ozs. to transplant for an acre.

For early summer use sow in hotbed in February or March. Before transplanting to the open ground they should be hardened off by exposing them gradually to the night air. For winter use sow in open ground in May or June, taking care in either case not to let the plants stand too closely, as this makes them "spindling." When 5 or 6 inches high, transplant in rows

2 feet apart one way, and 12 to 18 inches the other, according to variety, burying to the first leaf, whatever the stem length. Hoe frequently, drawing the earth up about the plants until they begin to head.

	Pkt.	Oz.	¼ lb.	Lb.
Early Spring				
.....	\$0.10	\$0.30	\$1.00	\$3.00
Extra Early Express.....				
.....	.10	.30	1.00	3.00
Early Jersey Wakefield, select.....	.10	.30	1.00	3.00
Early Winnigstadt, select stock....	.10	.30	1.00	3.00
Early Dwarf Flat Dutch .....	.10	.30	1.00	3.00
Early Summer .....	.10	.30	1.00	3.00
All Seasons, medium .....	.10	.30	1.00	3.00
Burpee's Surehead, medium .....	.10	.30	1.00	3.00
Copenhagen Market, early .....	.10	.50	1.75	5.00
Glory of Enkhuizen, medium....	.10	.50	1.75	5.00



	Pkt.	Oz.	¼ lb.	Lb.
Danish Ballhead, long stem	\$0.10	\$0.50	\$1.75	\$5.00
Danish Roundhead, short stem.....	.10	.50	1.75	5.00
Danish Summer Ballhead .....	.10	.50	1.75	5.00
Large Drumhead, late .....	.10	.35	1.00	3.00
Charleston Wakefield .....	.10	.30	1.00	3.00
Premium Late Flat Dutch .....	.10	.30	1.00	3.00
Drumhead Savoy, curled .....	.10	.30	1.00	3.00
Early Paris Savoy, curled .....	.10	.30	1.00	3.00
Mammoth Rock Red, late .....	.10	.30	1.00	3.00
Danish Round Red, new, pkg., 10c; oz., 50c.				
For Cabbage Plants see page 30.				

CORN SALAD

	Pkt.	Oz.	¼ lb.
Broad Leaved	\$0.05	\$0.25	\$0.75
Lettuce Leaf .....	.05	.25	.75

CHICORY

Large Rooted, for the roots .....	.10	.50	1.50
Large Leaved, for salads .....	.10	.50	1.50
Witloof (Brussels), or French Endive .....	.10	.60	2.00

CARROTS

Ready for table in from 95 to 120 days from seed, according to variety. One ounce to a row 100 feet long; 3 lbs. per acre.

Any good land, if thoroughly and deeply worked, will produce satisfactory crops. Sow as early as the ground can be worked; sow the smaller kinds in rows 16 to 18 inches apart. Cover one-half inch deep and see that the soil is pressed firmly above the seed. Do not let the weeds get a start. Thin to 3 to 6 inches apart in the row as soon as the plants are large enough. For winter use gather and store like turnips.



	Pkt.	Oz.	¼ lb.	Lb.
Early French Forcing	\$0.05	\$0.15	\$0.40	\$1.25
Oxheart, or Guerande, early .....	.05	.15	.40	1.25
Early Scarlet Horn .....	.05	.15	.40	1.25
Chantenay, medium .....	.05	.15	.40	1.25
Danvers Half Long .....	.05	.15	.40	1.25
Nantes Half Long .....	.05	.15	.40	1.25
Intermediate St. Vallery .....	.05	.15	.40	1.25
Long Orange, late .....	.05	.15	.40	1.25
White Belgian, for stock .....	.05	.10	.30	1.00
Yellow Belgian, for stock .....	.05	.10	.30	1.00
Long Red Coreless .....	.05	.15	.40	1.25



CELERY

1 oz. will produce 3,000 good plants. One lb. to an acre.

Sow the seed (which is slow to germinate) in shallow boxes, or hotbed, cover the seed lightly. Keep the bed moist, almost wet, until the seeds germinate. When about 2 inches high, thin out and transplant so that they may stand 3 inches apart, and when the plants are 4 inches high, cut off tops, which will cause them to grow stocky. The essentials to success in celery growing are rich soil and plenty of water. The best results are usually obtained from setting about the middle of June or the first of July. In setting, prepare broad

trenches about 6 inches deep and 4 to 6 feet apart, cutting off the outer leaves and pressing the soil firmly about the roots. Cultivate freely. Earth up a little during the summer, keeping the leaf stalks close together, so that the soil cannot get between them. Finish earthing up in the autumn, and never hoe or earth up when the plants are wet, as this would be likely to cause them to rust or rot.

To keep celery for winter, dig trenches a foot wide and as deep as the tops of the plants. Stand celery in these erect, with what dirt adheres to the roots, packing closely, but not crowding. It should be covered with straw or leaves, a little at a time, as the cold becomes greater. Celery will bear a good deal of frost.

	Pkt.	$\frac{1}{4}$ oz.	Oz.	$\frac{1}{4}$ lb.
Golden Self-Blanching, French seed.....	\$0.10	\$0.30	\$1.00	\$4.00
Giant Pascal, French seed .....	.10		.30	1.00
White Plume, French seed .....	.10		.30	1.00
Half Dwarf White .....	.10		.30	1.00
Celeriac, or Turnip-Rooted Celery....	.10		.30	1.00

CORN—POP

(Not Postpaid)

	Pkt.	$\frac{1}{4}$ lb.	Lb.
White Rice	\$0.05	\$0.10	\$0.20
Queen's Golden .....	.05	.10	.20
Spanish .....	.05	.10	.20
Japanese Hulless or Tom Thumb .....	.05	.15	.35

CRESS

	Pkt.	Oz.	$\frac{1}{4}$ lb.
Curled, Pepper Grass	\$0.05	\$0.15	\$0.40
Water Cress, grows in water .....	.10	.50	1.75

EGG PLANT

	Pkt.	$\frac{1}{4}$ oz.	Oz.
New York Improved Spineless	\$0.10	\$0.20	\$0.50
Black Beauty, large, early .....	.10	.20	.50

Plants ready in May. See page 30.

ENDIVE

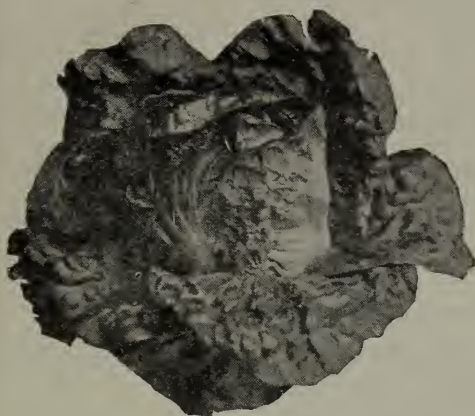
	Pkt.	Oz.	$\frac{1}{4}$ lb.	Lb.
Green Curled	\$0.05	\$0.15	\$0.45	\$1.25
White Curled .....	.05	.15	.45	1.25
Broad Leaved Batavian .....	.05	.15	.45	1.25

KOHL-RABI

	Pkt.	Oz.	$\frac{1}{4}$ lb.
Early White Vienna, select	\$0.10	\$0.30	\$0.90
Early Purple Vienna .....	.10	.30	.90



LETTUCE



Ready for use in 3 or 4 weeks, marketable size 60 to 65 days from seed. One ounce for about 3,000 plants.

Lettuce thrives best in a light, very rich, moist soil, but does well in common garden soil, enriched with rotten manure. For first crop sow in gentle heat in February and transplant to 10 inches apart. It may be sown thickly and cut when the plants are very young. For a summer supply sow thinly in shallow drills in a

cool, partially shaded place, in rich soil, and thin out to a foot apart.

	Pkt.	Oz.	¼ lb.	Lb.
*Los Angeles Market, smooth	\$0.10	\$0.50	\$1.50	\$4.50
*May King, select strain .....	.05	.10	.35	1.25
*Improved Big Boston, select strain .....	.05	.10	.35	1.25
Grand Rapids, select strain .....	.05	.10	.35	1.25
*Denver Market, wrinkled .....	.05	.10	.35	1.25
*Hanson, solid heads .....	.05	.10	.35	1.25
Early Ohio, or Cincinnati, curled.....	.05	.10	.35	1.25
*California, or Cream Butter .....	.05	.10	.35	1.25
Black Seeded Simpson, curly .....	.05	.10	.35	1.00
Simpson's Early Curled .....	.05	.10	.35	1.00
Early Tennis Ball .....	.05	.10	.35	1.00
Prize Head, brown edge .....	.05	.10	.35	1.25
*Iceberg .....	.10	.40	1.00	4.00
Paris White Cos, upright .....	.05	.10	.35	1.25
*Mammoth Salamander .....	.05	.10	.35	1.25

*These varieties form heads.

LEEK

London Flag	\$0.05	\$0.25	\$0.75	\$2.50
Large Rouen .....	.05	.25	.75	2.50

MUSTARD

White London, yellow seed	\$0.05	\$0.10	\$0.30	\$1.00
Southern Giant Curled .....	.05	.10	.30	1.00
Brown or Black .....	.05	.10	.30	1.00

MUSKMELON

One ounce to 50 hills; 2 to 3 pounds per acre.

Earliest varieties ready in 90 to 100 days from sowing. General crop requires 115 to 140 days. Melons thrive best in a light, rich soil. Plant when the ground has become warm and dry, and danger from frost is past, in hills 6 feet apart each way, in well-enriched soil, 12 to 15 seeds in each hill. After all danger of bugs is over, thin out to 3 plants per hill. When about 3 feet long, pinch off the tips to make them branch and cause fruit to mature earlier.



	Pkt.	Oz	¼ lb.	Lb.
Rocky Ford Cantaloupe, green.....	\$0.05	\$0.10	\$0.30	\$1.00
Rocky Ford Cantaloupe, Select				
Eden Gem, Rust Resisting .....	.10	.15	.40	1.25
Burrell's Gem, select, pink .....	.05	.10	.30	1.00
Osage, green .....	.05	.10	.30	1.00
Netted Gem, Green .....	.05	.10	.30	1.00
Emerald Gem, green .....	.05	.10	.30	1.00
Pollock 10-25, salmon tint .....	.10	.15	.50	1.75
Ryan's Gold Lined Rocky Ford.....	.10	.20	.60	2.00
Honey Dew .....	.10	.15	.50	1.75
Hackensack, large green .....	.05	.10	.30	1.00
Acme, or Baltimore, green .....	.05	.10	.30	1.00
Miller's Cream, salmon .....	.05	.10	.30	1.00
White Japan .....	.05	.10	.30	1.00
Banana .....	.05	.10	.30	1.00
Large Yellow Musk .....	.05	.10	.30	1.00
Vegetable Orange .....	.05	.10	.30	1.00

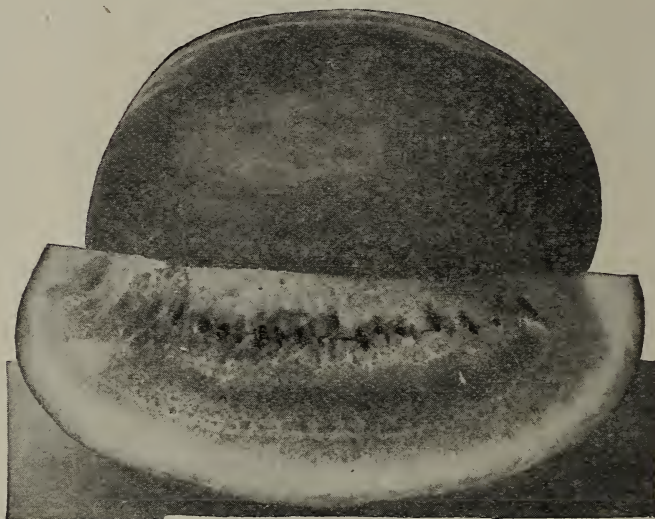
CITRON MELONS

Citron, Red Seeded	\$0.05	\$0.10	\$0.30	\$1.00
Colorado Preserving, Green Seed.....	.05	.10	.30	1.00

CASABAS

Golden Beauty	\$0.10	\$0.20	\$0.60	\$1.75
Salmon or Golden Flesh .....	.10	.20	.50	1.50

WATERMELONS



One ounce to 30 hills; 4 lbs. per acre. Ready from 90 to 140 days from seed.

To get good strong vines early in season, form large, well-drained hills of earth, made very rich, about 8 feet apart. In these plant the seed as soon as the ground is warm and dry, and carefully protect the young plants from insects and hasten their growth by the use of liquid manure.

	Pkt.	Oz	¼ lb.	Lb.
Kleckley's Sweet, long	\$0.05	\$0.10	\$0.30	\$1.00
Rocky Ford, long .....	.05	.10	.30	1.00
Tom Watson, long .....	.05	.10	.30	1.00
Ice Cream, or Peerless .....	.05	.10	.30	1.00
Gypsy, or Rattlesnake, large .....	.05	.10	.30	1.00
Kentucky Wonder, oblong .....	.05	.10	.30	1.00
Kolb's Gem, large, round .....	.05	.10	.30	1.00
Mountain Sweet, oblong .....	.05	.10	.30	1.00
Cuban Queen .....	.05	.10	.30	1.00
Light Icing .....	.05	.10	.30	1.00
Seminole .....	.05	.10	.30	1.00
Pride of Georgia .....	.05	.10	.30	1.00
Cole's Early .....	.05	.10	.30	1.00
Phinney's Early, round .....	.05	.10	.30	1.00
Sweetheart, oval .....	.05	.10	.30	1.00
Florida Favorite, oblong .....	.05	.10	.30	1.00
Halbert Honey .....	.05	.10	.30	1.00

OKRA

	Pkt.	Oz	¼ lb.	Lb.
White Velvet, medium dwarf	\$0.05	\$0.10	\$0.25	\$0.75
Early Dwarf Green .....	.05	.10	.25	.75

ONION

One ounce to 100 feet of drill; 4 to 5 lbs. to the acre. Ready for green onions in 60 days. Main crop matures in 130 to 190 days from sowing.

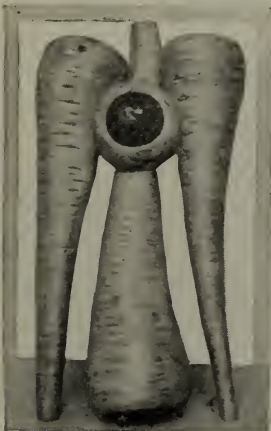
The onion is most successfully grown in a rich, sandy loam. Continued cultivation upon the same plot of ground, contrary to the general rule, rather improves the crop than otherwise. As early as the ground can be worked in the spring, sow the seeds in drills 14 inches apart, covering half an inch. When the plants can just be seen in rows, commence hoeing, just skinning the surface. Subsequently weed thoroughly and carefully by hand. When the tops die, pull the onions and spread evenly over the ground; stir or turn until thoroughly dried, then cut the tops off one-half inch from the bulb.



	Pkt.	Oz	¼ lb.	Lb.
Danvers Yellow Globe	\$0.05	\$0.20	\$0.50	\$1.50
Danvers Yellow Flat .....	.05	.20	.50	1.40
Southport Yellow Globe .....	.05	.20	.60	1.75
Southport Red Globe .....	.05	.20	.60	1.75
Large Red Wethersfield .....	.05	.20	.60	1.75
Extra Early Red Flat .....	.05	.20	.60	1.50
Brown Australian, amber color .....	.05	.20	.60	1.50
Prize Taker, select, pale yellow .....	.05	.20	.60	1.75
Ailse Craig, new, ½ oz., 20c .....	.10	.35	1.00	3.00
Silver Skin, very mild .....	.05	.25	.80	2.50
Southport White Globe .....	.05	.25	.80	2.50
Mammoth Silver King .....	.05	.25	.80	2.50
Extra Early Barletta, French .....	.10	.25	.80	2.50
Early White Queen, small .....	.10	.25	.75	2.25
Bunching Onion, White Lisbon .....	.05	.20	.50	1.50

BERMUDA ONION SEED

White Bermuda	\$0.10	\$0.20	\$0.60	\$2.00
Red Bermuda .....	.10	.20	.60	2.00



ONION SETS

Postage 5c per quart extra.

	Pint	Quart
Yellow Bottoms	\$0.15	\$0.25
Red Bottoms .....	.15	.25
White Bottoms .....	.15	.30
Red Top Sets .....	.15	.25

Larger quantities quoted on application.

PARSNIPS

	Pkt.	Oz.	¼ lb.	Lb.
Hollow Crown, the standard	\$0.05	\$0.10	\$0.25	\$0.90
Guernsey Half Long .....	.05	.10	.25	.90
Short or Round .....	.05	.10	.25	.90

PARSLEY

One ounce to 150 feet of drill. Soak the seeds a few hours in lukewarm water and sow early in spring in drills 1 foot apart. Thin out to 4 inches. To preserve in winter, transplant to a light cellar or glass frames. Used for garnishing and seasoning.



	Pkt.	Oz	¼ lb.	Lb.
Moss or Triple Curled	\$0.05	\$0.15	\$0.35	\$1.25
New Emerald, dwarf .....	.05	.15	.35	1.25
Turnip Rooted, or Hamburg .....	.05	.15	.40	1.40



PEPPER

One ounce to 1,500 plants. Require from 135 to 160 days from sowing to maturity.

The small peppers are the hottest, the large varieties being quite mild in flavor. Sow in hot-bed early in April and transplant. They may also be sown in the open ground when the danger of frost is past and the soil is warm.

	Pkt.	½ oz.	Oz.
Ruby King, select strain	\$0.10	\$0.35	\$0.60
Spanish Monstrous, large .....	.10	.35	.60
Chinese Giant, extra large .....	.10	.35	.60
Large Bell (Bull Nose) .....	.10	.35	.60
Sweet Mountain .....	.10	.35	.60
Long Red Cayenne, pungent .....	.10	.35	.50
Mexican Red Chili, long .....	.10	.35	.50
Schell's New Quality, .....	.15	.40	.70
Pimiento .....	.10	.30	.50

For Pepper Plants, see page 30.

PUMPKIN

From 100 to 120 days from sowing seed to maturity. One ounce to 30 hills; 4 pounds per acre.

Pumpkins are planted frequently in connection with a crop of corn, or as a second crop after early peas, etc. The fruits are quite susceptible to frost and should be gathered and stored in a cool, dry place.

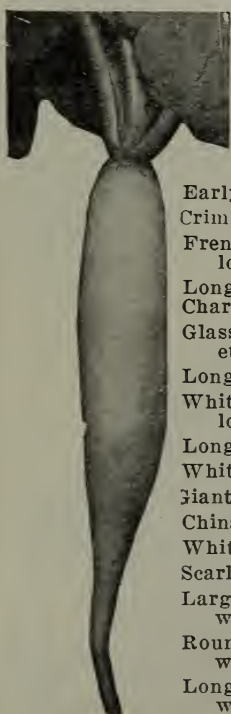


	Pkt.	Oz	¼ lb.	Lb.
Small Sugar, or New England Pie....	\$0.05	\$0.10	\$0.30	\$1.00
Large Cheese, flat, yellow .....	.05	.10	.30	1.00
Mammoth Tours, large .....	.05	.10	.30	1.15
King of Mammoth, large .....	.05	.10	.30	1.15
Japanese Pie, small one end .....	.05	.10	.30	1.00
Kentucky Field, large, yellow .....	.05	.10	.30	.90
Large Yellow Field, large, flat .....	.05	.10	.30	.90
Sweet Potato .....	.05	.10	.30	1.00
Cushaw or Crookneck .....	.05	.10	.30	1.00

RADISH

One ounce to 100 feet of drill; 10 lbs. to an acre. Ready in 18 to 45 days from seed, according to variety.

Radishes must make a rapid growth to be crisp and tender. For early use sow in the hotbed, half an inch deep. For an early crop in the open ground, sow thinly in drills on rich, sandy soil, as early in the spring as it is fit to work. For a succession, sow every two weeks.



	Pkt.	Oz.	¼ lb.	Lb.
Non Plus Ultra (Fireball). Forcing	\$0.05	\$0.15	\$0.45	\$1.25
Perfection, white tipped .....	.05	.10	.30	.90
Vick's Scarlet Globe, Forcing.....	.10	.15	.35	1.10
Early Scarlet Turnip, white tip.....	.05	.10	.30	.90
Early Scarlet Turnip.....	.05	.10	.30	.90
Crimson Giant, early .....	.05	.15	.45	1.25
French Breakfast, half long .....	.05	.10	.30	.90
Long Brightest Scarlet....	.05	.10	.30	.90
Chartier, long .....	.05	.10	.30	.90
Glass or Cincinnati Mark-et, long .....	.05	.10	.30	.90
Long Scarlet Short Top .....	.05	.10	.30	.90
White Icicle, select strain long .....	.05	.10	.30	.90
Long White Vienna .....	.05	.10	.30	.90
White Strasburg, late ....	.05	.10	.30	.90
Giant White Stuttgart, late .....	.05	.10	.30	.90
China Rose, for winter....	.05	.10	.30	.90
White Olive Shaped.....	.05	.10	.30	.90
Scarlet Olive Shaped.....	.05	.10	.30	.90
Large White Russian, winter .....	.05	.10	.30	.90
Round Black Spanish, winter .....	.05	.10	.30	.90
Long Black Spanish, winter .....	.05	.10	.30	.90

RHUBARB OR PIE PLANT

1 ounce to 500 plants.

The richer the ground is, the better. Sow in drills an inch deep, and thin out to 6 inches apart. In the fall transplant into very highly manured and deeply stirred soil, setting them 4 feet apart each way, and give a dressing of coarse manure every spring. The stalks should not be plucked until the second year, and the plant never allowed to exhaust itself by running to seed. In removing be careful to pull off close to the roots instead of cutting.

	Pkt.	Oz	¼ lb.	Lb.
Linnaeus, small, early	\$0.05	\$0.15	\$0.45	\$1.25
Victoria, large, late .....	.05	.15	.45	1.25

For Rhubarb Roots see page 30.

SPINACH



One ounce to 100 feet of drill; 12 lbs. per acre. Cultivated very extensively for "greens." A profitable crop for market. Select a rich, well-drained soil, highly manured. For a succession, sow early in April, and again in May, in drills 1 foot apart and 1 inch deep, properly thinning out when plants are an inch in the

leaf. For early spring use, sow early in autumn and protect the plants with a light covering of leaves or straw.

	Pkt.	Oz.	¼ lb.	Lb.
Bloomsdale, or Norfolk Savoy Leaved	\$0.05	\$0.10	\$0.25	\$0.90
Long Standing, for spring	.05	.10	.25	.90
Monstrous Round-Leaved Viroflay	.05	.10	.25	.90
Prickly, for fall sowing	.05	.10	.25	.90
New Zealand, large leaf	.05	.15	.40	1.25

5 to 25 lbs., one variety, at 75c per lb., not prepaid.

SALSIFY

OR VEGETABLE OYSTER

One ounce to 60 feet of drill.

Resembles a small parsnip, and when thinly sliced and cooked is a good substitute for oysters, having a very similar flavor. It succeeds best in light, rich soil. Sow early and quite deep. The leaves, when they first appear, look like grass, making it especially important to plant in rows. Thin out and cultivate like the carrot; roots are perfectly hardy and may remain out all winter, but should be dug early in the spring; store a quantity for winter use in a cellar.

Mammoth Sandwich Island	\$0.05	\$0.20	\$0.60	\$1.85
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SQUASH

Summer and early sorts ready for use in from 55 to 65 days from planting. One ounce to 30 hills; 4 lbs. to the acre. Hills 4 feet apart each way.

Any good enriched soil is adapted to the growth of the squash. The seed should not be sown in the spring until danger from frost is past and the ground is warmed and thoroughly settled. Keep the earth about the plants loose and clean. Three plants to the hill.

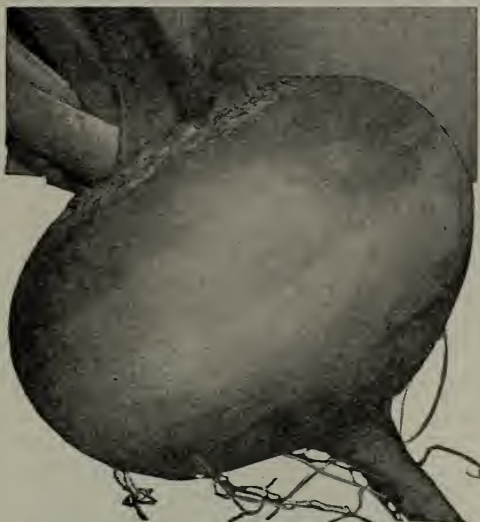


	Pkt.	Oz.	¼ lb.	Lb.
Mammoth Bush Summer Crookneck	\$0.05	\$0.10	\$0.35	\$1.25
White Bush Scalloped (Patty-Pan)	.05	.10	.35	1.25
Early Yellow Bush Scalloped	.05	.10	.35	1.25
Fordhook Bush, for summer	.05	.10	.35	1.25
Long Vegetable Marrow (English)	.05	.10	.35	1.25
Hubbard, standard for winter	.05	.20	.50	1.50
Warty Hubbard, very warty	.05	.20	.50	1.50
Golden Hubbard, for winter	.05	.20	.50	1.50
Sibley, or Pikes Peak, oval	.05	.15	.40	1.00
Delicious, orange color	.05	.15	.40	1.50
Essex Hybrid, flat ends	.05	.10	.35	1.25
Boston Marrow, oval	.05	.10	.35	1.25
Marblehead, late	.05	.15	.40	1.25
Mammoth Chili, very large	.05	.10	.30	1.25

TURNIP

Ready from forty to sixty days from seed. One ounce to 150 feet of drill; 2 lbs. to the acre.

The turnip is most easily affected in form and flavor by soil, climate and mode of culture. Sow in drills about 16 inches apart and half an inch deep, or sow broadcast. Get the spring crop started very early, so that the turnips may have time to grow before the hot weather causes them to become tough and strong. Sow for main crop the middle of July to the last of August.



Extra Early White Pkt.	Oz.	$\frac{1}{4}$ lb.	lb.
Milan, flat	\$0.10	\$0.15	\$0.45 \$1.50
Extra Early Purple			
Top Milan .....	.10	.15	.45 1.50
Early White Egg			
oval .....	.05	.10	.30 .90
Purple Top Strap			
Leaf, flat .....	.05	.10	.30 .90
Early White Flat			
Dutch .....	.05	.10	.30 .90
Amber Globe, late,			
large .....	.05	.10	.30 .90
Mammoth Red Top			
Globe, late .....	.05	.10	.30 .90
White Globe .....	.05	.10	.30 .90
Cow Horn, very long,			
white .....	.05	.10	.30 .90
Yellow Aberdeen, purple			
top .....	.05	.10	.30 .90
Golden Ball .....	.05	.10	.30 .90
Early Snowball .....	.05	.10	.30 .90

RUTABAGA

Purple Top Yellow....	.05	.10	.30 .90
Westbury Swede .....	.05	.10	.30 .90
Sweet German .....	.05	.10	.30 .90
Shamrock Swede .....	.05	.10	.30 .90
Laing's Improved .....	.05	.10	.30 .90
Bangholm .....	.05	.10	.30 .90

TOMATOES

Select Stock

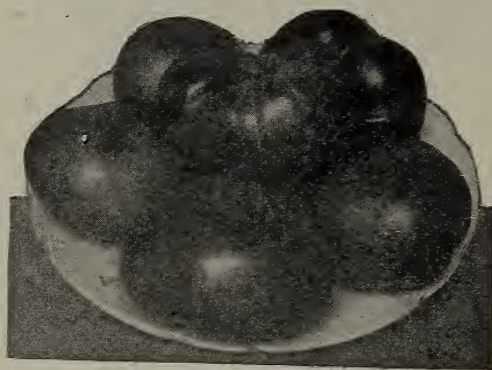
One ounce to 1,500 plants; $\frac{1}{4}$ -lb (transplanted) per acre. Mature in 90 to 150 days from planting.

For early plants sow seed in boxes or hotbeds in March. When the plants are about 2 inches high, transplant to 4 inches apart each way. Set out of doors as soon as danger from frost is over. Transplant carefully 4 feet apart each way and cultivate well as long as the vines will permit. To obtain early fruit, pinch off the ends of the branches when the first fruit is set.



	Pkt.	Oz.	¼ lb.	Lb.
Livingston's Globe, Forcing	\$0.10	\$0.35	\$1.25	\$4.50
Earliana, Selected Strain, red .....	.10	.35	1.25	4.50
June Pink (Pink Earliana) .....	.10	.35	1.25	4.50
Livingston's Beauty, select stock.....	.10	.35	1.25	4.50
Stone, scarlet .....	.10	.35	1.25	4.50
Early Detroit .....	.10	.45	1.25	5.00
John Baer .....	.10	.50	1.50	5.00
Dwarf Aristocrat, scarlet .....	.10	.35	1.25	4.50
Ponderosa, purplish red, large .....	.10	.35	1.25	4.50
Early Acme .....	.10	.35	1.25	4.50
Perfection, red .....	.10	.35	1.25	4.50
Dwarf Champion, purplish red .....	.10	.35	1.25	4.50
Red Cherry, small .....	.10	.35	1.25	.....
Red Pear .....	.10	.35	1.25	.....
Yellow Pear, small .....	.10	.35	1.25	.....
Yellow Husk, or Ground Cherry ....	.10	.35	1.25	.....
Yellow Plum .....	.10	.35	1.25	.....
Golden Queen, large yellow .....	.10	.35	1.25	4.50

For Tomato Plants see page 30.



FORCING VARIETIES
Sutton's Best
 of All. Immense cropper. Pkt., 10c; ½ oz., 30c; oz., 50c.

Comet. Scarlet color. Pkt., 15c.

Frogmore Select. Bright scarlet, solid. Pkt., 15c; ½ oz., 30c; oz., 50c.

Lorillard. Bright red, fine flavor. Pkt., 10c; ½ oz., 25c; oz., 40c.

Sunrise. A good English sort. Pkt., 15c.

Mayflower. Bright red, medium size. Pkt., 10c; ½ oz., 25c; oz., 40c.

TOBACCO

One ounce will sow about 25 sq. feet and produce plants for one acre.

Connecticut seed, Pkt., 10c.

Havana; Pkt., 10c.

HERBS

	Pkt.	Oz.
Anise, for garnishing	\$0.10	\$0.35
*Balm, for balm tea .....	.10	.35
Basil, Sweet, for seasonings, soups, etc.....	.10	.50
Borage, a pot herb and for bees .....	.10	.35
Caraway, seeds used in bread .....	.10	.25
Catnip, a medicinal herb .....	.10	1.40
Coriander, seeds used in confectionery .....	.10	.25
Dill, leaves used in pickles, etc. ....	.10	.20
*Fennel, used in fish sauces, etc. ....	.10	.30
*Horehound, for medicinal and candy .....	.10	.35
Pennyroyal, medicinal, .....	.10	.75
*Lavender, a popular aromatic .....	.10	.70
Marjoram, Sweet, for seasoning .....	.10	.65
Rosemary, aromatic .....	.10	.60
Sorrel, for salads .....	.10	.40
Summer Savory, for seasoning .....	.10	.65
Saffron, for dyeing .....	.10	.50
*Sage, Broad-Leaved, for seasonings .....	.10	.35
Thyme, for seasoning .....	.10	.60
*Wormwood, for poultry .....	.10	.50
Tansy, medicinal .....	.10	.65

*Varieties thus marked are perennials.

Chervil. A native of South Europe. It is used for soups and salads. An annual. Pkt., 5c; oz., 15c.

Dandelion. The Dandelion resembles endives, and is sometimes cultivated for spring greens or for blanching or salad. The roots when dried and roasted are often employed as a substitute for coffee. Large-leaved, double the size of the common. Pkt., 10c; oz., 50c.

Flower Seeds

All Flower Seeds Are Postpaid.

	Pkt.
Acrolinium, (Everlasting), Annual, mixed	\$0.05
Aconitum (Monkshood), perennial .....	.05
Abronia (Umbellata) .....	.10
Adonis (Pheasant's Eye) .....	.05
Adlunnia (Allegheny Vine) .....	.10
Agrostemma, annual .....	.05
Agrostemma, perennial .....	.10
Anemone Coronaria (Wind Flower) .....	.05
Asphodel, perennial .....	.10
Ageratum, Annual, Mexicanum, light blue .....	.10
Alyssum, Sweet, pure white, oz., 25c; ½ oz., 15c.....	.05
Alyssum, Little Gem; oz., 40c; ¼ oz., 15c .....	.05
Alyssum Sexatile Compactum, yellow perennial .....	.05
Amaranthus Tricolor, Joseph's Coat, Annual, ¼ oz., 15c.....	.05
Amaranthus, Candatus, (Love Lies Bleeding).....	.10
Ampelopsis Quinquifolia, Woodbine .....	.05
Antirrhinum (Snapdragon), dark rose; ¼ oz., 25c .....	.10
Antirrhinum (Snapdragon), yellow; ¼ oz., 25c.....	.10
Antirrhinum (Snapdragon), scarlet; ¼ oz., 25c .....	.10
Antirrhinum (Snapdragon), white; ¼ oz., 25c.....	.10
Antirrhinum (Snapdragon), carmine-yellow; ¼ oz., 25c.....	.10
Antirrhinum, mixed; ¼ oz., 20c .....	.05



Asters, Giant Comet, mixed .....	.15
Asters, Daybreak, shell pink, ⅛ oz., 25c .....	.10
Asters, Royal Striped, very odd; ⅛ oz., 35c; .....	.10
Asters, Crown or Corcordeau .....	.10
Asters, Peony Flowered, Double .....	.10
Asters, Perfection, mixed .....	.10
Asters, China, mixed .....	.10
Asters, Semple's Branching, mixed .....	.10
Asters, Mikado, pink or Rochester .....	.15
Asters, Mikado, white .....	.15
Asters, Cregos Giant, pink .....	.15
Asters, Crimson King .....	.20
Asters, Violet King .....	.20
Asters, Lavender Gem .....	.15
Asters, Pink Beauty .....	.15
Asters, Queen of the Market, white .....	.15
Asters, Queen of the Market, pink .....	.15
Asters, Queen of the Market, deep rose .....	.15
Asters, Queen of the Market, light blue .....	.15
Asters, Queen of the Market, dark blue .....	.15
Asters, Queen of the Market, mixed .....	.15
Asters, Perennial .....	.10
Bachelor's Button, mixed, ½ oz., 15c .....	.10
Balsam, Double Camelia Fl., mixed; ¼ oz., 20c .....	.10
Balsam, Double, Tall, mixed .....	.10
Balsam, Double, Dwarf, mixed .....	.10
Balsam Apple .....	.10
Balloon Vine .....	.10
Beans, Scarlet Runner; Lb., 45c; ¼ lb., 15c .....	.05
Beans, White Runner Papillo .....	.10
Begonias, Tuberous Rooted, mixed; original pkts.....	.25

FLOWER SEEDS

(All Postpaid)

	Pkt.
Calendula, (Pot Marigold), Annual,.....	.05
Calliopsis, Annual, mixed colors .....	.05
Canterbury Bells, medium, mixed, single .....	.10
Canterbury Bells, medium, mixed, double .....	.10
Canterbury Bells, perennial .....	.10
Canary Bird Flower, beautiful climber .....	.10
Cardinal Climber, .....	.15
Fanna, Indian Shot, Tender Perennial, mixed .....	.05
Candytuft, Giant Empress, large white .....	.05
Candytuft, dark purple .....	.05
Candytuft, all colors, mixed; oz., 15c .....	.05
Carnation, Marguerite, mixed .....	.15
Catchfly (Silene Compacta), Annual, mixed, ½ oz., 15c .....	.05
Castor Beans, Dwarf .....	.05
Castor Beans, Zanzibariensis, Giants, oz., 25c .....	.05
California Poppy, choice, mixed; oz., 25c .....	.05
California Poppy, Golden West .....	.10
California Poppy, Burbank's Crimson .....	.15
Cineraria; Tender Pot Perennial .....	.25
Clarkia, Pulchella, Double, mixed .....	.05
Centaurea Imperialis, Annual, mixed .....	.10
Centaurea Moschatus, mixed .....	.10
Centaurea Marguerite, mixed .....	.10
Centaurea Suavolens, mixed .....	.10
Centaurea Cyanus, Bachelor's Button, mixed .....	.10
Centaurea Emperor William, Cornflower, Blue .....	.10
Centaurea Dusty Miller, Candidissima .....	.15
Centaurea Dusty Miller, Gymnocarpa .....	.15

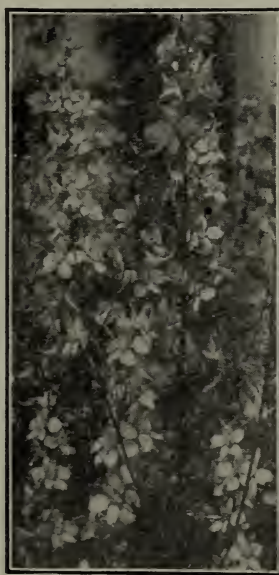


Coleus, Tender Perennial, mixed .....	.25
Cosmos, Early Flowering, white; ½ oz., 30c .....	.10
Cosmos, Early Flowering, pink; ½ oz., 30c .....	.10
Cosmos, Early Flowering, crimson; ½ oz., 30c .....	.10
Cosmos, Early Flowering, mixed; oz., 40c .....	.10
Cosmos, Giant Late Flowering, mixed; oz., 25c .....	.10
Dahlia, Double, mixed .....	.10
Dahlia, Single, mixed .....	.10
Chrysanthemums, Double, mixed; ½ oz., 15c .....	.10
Chrysanthemums, Burrheadum, mixed .....	.10
Chrysanthemums, Frutescens, Paris Daisy, white .....	.10
Cobaea Scandens, Tender Climber, purple and white .....	.10
Coreopsis, Lanceolata, Grandiflora, Perennial .....	.10
Columbine, Rocky Mountain, Aquilegia Coerulea; ½ oz., 35c .....	.10
Columbine, Hortensis, Double, mixed .....	.10
Columbine, Golden Spur .....	.10
Columbine, Grandiflora Alba, white .....	.10
Cypress Vine, Tender Annual Climber, mixed; ½ oz., 20c .....	.05
Cockscomb Plumosa, Feathered, Annual, mixed .....	.05
Cockscomb, Tall, mixed .....	.05
Convolvulus Minor (Dwarf Morning Glory), mixed .....	.05
Daisy, English Bellis Perennis, Double, pink .....	.10
Daisy, English Bellis Perennis, Double, white .....	.10
Daisy, English Bellis Perennis, mixed .....	.10
Daisy, Paris, Marguerite, white .....	.10
Daisy, Burbank's Shasta, Alaska, white .....	.20
Daisy, Shasta, California, yellow .....	.20
Daisy, Shasta, Westhalla .....	.20
Daisy, Shasta, Monstrosum .....	.20
Demorphothea Aurantiaca Hybrida (Golden Orange) .....	.15
Delphinium (Perennial Larkspur) mixed .....	.05
Feverfew, Half Hardy Perennial, white, double .....	.10

FLOWER SEEDS

(All Postpaid.)

	Pkt.
Four O'Clock, Annual, mixed; oz., 20c .....	.05
Forget-Me-Not (Myosotis), blue; ¼ oz., 20c .....	.05
Fox Glove (Digitalis), Hardy Perennial, mixed .....	.10
Gaillardia, Annual Varieties, mixed .....	.05
Gaillardia, Perennial, Grandiflora, mixed .....	.10
Gilia, Annual, mixed colors; ½ oz., 15c .....	.05
Geranium, Double, mixed .....	.15
Geranium, Single, mixed .....	.05
Gloxinia Hybrida, .....	.25
Godetia, mixed .....	.10
Gourds, Dipper; oz., 20c .....	.05
Gourds, Nest Egg oz., 20c .....	.05
Gourds, Hercules Club; oz., 20c .....	.05
Gourds, ornamental varieties, mixed, large or small.....	.05
Gourd, Calabash, Dutchman's Pipe .....	.10
Gypsophila, Elegans, Angel's Breath, Annual .....	.05
Gypsophila, Paniculata, Baby's Breath, Perennial.....	.10
Gypsophila, Paniculata, Double .....	.25
Gomphrena, Globe Amaranth, Everlasting, mixed .....	.05
Heliotrope, Tender Perennial, mixed colors .....	.10
Hollyhock, hardy perennial, double, white .....	.10
Hollyhock, hardy perennial, double, pink .....	.10
Hollyhock, hardy perennial, double, crimson .....	.10
Hollyhock, hardy perennial, double, yellow .....	.10
Hollyhock, hardy perennial, all colors, mixed .....	.10
Hyacinth Bean, Tender Climber, mixed colors. ....	.05
Ice Plant, Tender Annual .....	.05
Japanese Hops, Hardy Annual Climber, self-sows .....	.05
Job's Tears, Annual, Ornamental Grass; oz., 15c .....	.05
Kochia, Mexican Burning Bush, Summer Cypress.....	.10
Kenilworth Ivy .....	.10
Kudzu Vine (Jack and the Beanstalk) .....	.10



Larkspur, Annual, Double, Tall Branching, mixed .....	.05
Larkspur, Annual, Dwarf German, double .....	.05
Lantana, Tender Perennial, mixed .....	.10
Lavender, Vera, Perennial .....	.10
Lathyrus, Perennial Sweet Peas, mixed .....	.05
Lemon Verbena .....	.10
Linum, Scarlet Flax, Annual, ½ oz., 15c.....	.05
Lobelia, Half Hardy Annual, Compacta, blue .....	.10
Marigold, Tall African, Double, mixed; ½ oz., 15c.....	.05
Marigold, Dwarf French, Double, mixed; ½ oz., 15c.....	.05
Mimulus Moschatus, Musk Plant, Tender Perennial .....	.10
Mignonette, Giant Machel, ¼ oz., 15c.....	.05
Mignonette, Reseda Odorata; ½ oz., 20c .....	.05
Mignonette, Grandiflora, Sweet; oz., 15c .....	.05
Maurandia, Tender Climber for Window Boxes .....	.15
Mourning Bride, Scabosia, Double, Tall, mixed .....	.05
Morning Glory, Tall, all colors, mixed; oz., 15c .....	.05
Morning Glory, Dwarf, mixed colors .....	.05
Moon Flower, Tender Annual Climber, white .....	.10
Moon Flower, Tender Annual Climber, sky blue .....	.10

FLOWER SEEDS

NASTURTIUMS



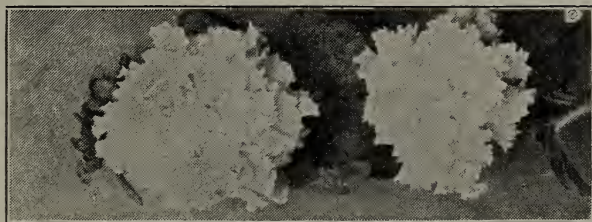
	Pkt.
Dwarf Varieties, mixed; ¼ lb., 45c; 2 oz., 25c; oz., 15c; ½ oz., 10c; .....	.05
Tall Varieties, mixed; ¼ lb., 45c; 2 oz., 25c; oz., 15c; ½ oz., 10c .....	.05
Nemophillia (Love Grass) .....	.05
Nigella, Annual, mixed of blue and white; ½ oz., 15c .....	.05
Nicotiana, Affinis, white flowers, ½ oz., 25c .....	.10
Nicotiana, Affinis, Hybridia, .....	.10
Nicotiana Sandarene .....	.15

PANSY



Giant Trimardeau, King of the blacks; ⅛ oz., 40c .....	.10
Giant Trimardeau, Emperor William, blue; ⅛ oz., 40c .....	.15
Giant Trimardeau, Meteor, fiery brown; ⅛ oz., 40c .....	.10
Giant Trimardeau, Giant Purple, royal purple; ⅛ oz., 40c....	.10
Giant Trimardeau, pure white; ⅛ oz., 40c .....	.10
Giant Trimardeau, golden yellow, dark eye; ⅛ oz., 40c .....	.10
Giant Trimardeau, mixed; oz., \$2.00; ¼ oz., 60c .....	.10
Cassier's Giant, three and five blotch .....	.15
Silver State Mixture, our dependable strain .....	.25
Western Beauty, Fine large, mixed .....	.25
Perfection, mixed .....	.10
Mixed; ¼ oz., 25c; ⅛ oz., 15c .....	.05

FLOWER SEEDS

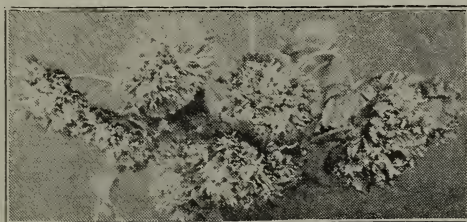


	Pkt.
Petunias, Double, mixed, very fine seed .....	.25
Petunias, Single, mixed; ¼ oz., 25c .....	.05
Petunias, Rosy Morn, New, Single, pink; ¼ oz., 45c .....	.15
Petunias, Giants of California, large, fine mixed .....	.25
Phlox Drummondii, Annual, mixed; ¼ oz., 15c .....	.05
Phlox Drummondii, Grandiflora, mixed; ¼ oz., 25c .....	.10
Perennial Phlox, Hardy, mixed .....	.10
Passion Flower, a beautiful tender climber .....	.10

PINKS

Chinesis, Double Chinese, mixed; ¼ oz., 15c .....	.05
Imperialis, Double Imperial, mixed; ¼ oz., 15c .....	.05
Heddewiggi, Single and Double, mixed; ¼ oz., 20c .....	.05
Grass, Clove or Perennial Hardy Pinks .....	.10
Picotee, Perennial .....	.10

POPPIES



Single Mixed, many varieties; oz., 15c .....	.05
Double Mixed, very showy; oz., 20c .....	.05
Shirley, Single, Large, many. colors; oz., 30c .....	.05
Tulip Poppy, Large, glowing scarlet; oz., 35c .....	.10
Iceland, Perennial, Small Flowers, mixed .....	.10
Orientalis, Perennial, beautiful crimson .....	.10
Portulaca, Rose Moss, Double, mixed .....	.10
Portulaca, Rose Moss, Single, mixed .....	.05
Pyrethrum Aureum, Golden Feather; ¼ oz., 20c .....	.05
Primrose, Primula, English Yellow, Single .....	.15
Primrose, Primula Sinensis, Chinese Primrose .....	.15
Salpiglossis, Velvet Flower, mixed; ¼ oz., 20c .....	.10
Salvia, Flowering Sage, Splendens, scarlet .....	.10
Sensitive Plant, a Tender Annual .....	.10
Smilax, a Tender Perennial Climber; ¼ oz., 15c .....	.10
Stocks, Ten Weeks, mixed .....	.10
Sweet Sultan, a variety of Centaurea, mixed .....	.10
Sweet William, Single, mixed; ¼ oz., 15c .....	.05
Sweet William, Double, mixed; ¼ oz., 25c .....	.10
Sunflower, Fancy, mixed, many kinds; oz., 15c .....	.05
Sweet Violets, Hardy Perennial, blue .....	.10
Sweet Violets, Hardy Perennial, white .....	.10
Thunbergia, Climbing Black-Eyed Susan .....	.10
Valeriana, (Garden Heliotrope), mixed .....	.05
Verbenas, Mammoth Flowered, mixed; ¼ oz., 40c .....	.10
Verbenas, Good, mixed; ¼ oz., 25c .....	.05
Verbena, Mammoth, scarlet, Defiance .....	.10
Verbena, Mammoth, purple .....	.10
Verbena, Mammoth, pink .....	.10
Verbena, Mammoth, blue .....	.10
Verbena, Mammoth, white .....	.10
Virginia Stock, Annual .....	.05
Virginia Stock, Annual, white .....	.05
Wallflower, Double, mixed, English Seed .....	.10
Wallflower, Single, mixed; ½ oz., 15c .....	.05
Wild Cucumber, Vigorous Climber; ¼ lb., 40c; oz., 15c .....	.05
Wild Flower Garden Mixture; oz., 15c .....	.05
Water Lily (Nymphaea), white .....	.10
Water Lily (Nymphaea), violet .....	.10
Zinnias, Striped, Double, mixed ¼ oz., 15c .....	.10
Zinnias, Giant Mammoth, Double, mixed; ¼ oz., 25c .....	.10

VEGETABLE PLANTS

These prices do not include postage. Vegetable plants do not carry well by mail. However, if they must go by mail, add postage, averaging 5c per dozen, 15c per 100.

	Per 12	100	1,000
Early Cabbage Seedlings, ready in April	\$0.15	\$0.75	\$4.50
Early Red Cabbage	.15	.75	....
Early Cauliflower, ready in April	.30	1.50	8.00
Tomatoes, Seedlings, ready in May	.25	.75	4.00
Tomatoes, once transplanted	.35	1.00	5.00
Peppers, transplanted, ready May 15	.30	1.00	6.00
Egg Plants, from hot bed	.35	2.50	....
Celery, Early, ready in May	.10	.50	3.50

Late Vegetable Plants

	Per 12	100	1,000
Late Cabbage, in bundles	.10	.50	3.50
Late Cauliflower, in bundles	.30	1.50	8.00
Late Celery, ready in June	.10	.50	3.50
Sweet Potato plants, in bundles of 100	.15	1.00	7.50

VEGETABLE ROOTS

	Per 12	100	1,000
Asparagus, popular varieties, 1 year old	\$0.25	\$1.50	\$8.00
Asparagus, popular varieties, 2 years old	.40	1.75	10.00
Postage extra, 25c for 1 year and 35c per 2 year, per 100.			
	Per 12	100	1,000
Rhubarb Roots; each, 10c	\$1.00	\$7.00	....
Postage extra, 25c for 1 year and 35c for 2 year, per 100.			
Horse Radish (by mail, 5c per doz. extra);	.15	1.00	7.00
Chives; each, 15c (by mail, 5c each extra); per 12	.....	.....	\$1.50
Catnip Roots; each, 20c; by mail	.....	.....	.25
Mint Roots; each clump, 25c; by mail	.....	.....	.35
Sage; 1-year clumps, 25c; by mail	.....	.....	.35
Tarragon; per clump, 25c; by mail	.....	.....	.35
Garlic Bulbs, dry; ½ lb., 30c; lb.,	.....	.....	.50

SMALL FRUITS

These varieties are all of established merit, home-grown and very suitable for our western planters.

When shipping by freight or express we can select the larger and stronger plants.

BLACKBERRIES

	Each	Per 12
Snyder, medium size, very hardy	\$0.15	\$1.50
Rathburn, large, jet black	.15	1.50
Loganberry, large, long, dark red	.15	1.50
Dewberry, trailing blackberry, hardy	.15	1.50
Himalaya Berry, a late blackberry	.15	1.50

If wanted by mail, add 5c each, 15c for 12 plants.

RASPBERRIES

	Each	Per 12
Cuthbert, large, rich crimson	\$0.15	\$1.50
Marlboro, light crimson, very early	.15	1.50
Kansas, large black, early, hardy	.15	1.50
Gregg, large black cap (tips)	.15	1.50
St. Regis Everbearing	.15	1.50

If wanted by mail, add 5c each, 15c for 12 plants.

GOOSEBERRIES

	Each	Per 12
Downing, large, pale green, very sweet	\$0.45	\$4.50
Houghton, medium size, pale red	.45	4.50
Josselyn, very large, productive	.45	4.50

If wanted by mail, add 5c each; 20c for 12 plants.

CURRANTS

	Each	Per 12
Cherry, large, deep red	\$0.45	\$4.50
Perfection, very large, bright red	.45	4.50
Black Naples, the standard black	.45	4.50
White Grape, creamy white, mild	.45	4.50

If wanted by mail, add 5c each; 20c for 12 plants.

GRAPES

Two Years Old

	Each	Per 12	100
Concord, standard black, very hardy	\$0.45	\$4.50	
Brighton, the best red for the West	.45	4.50	
Moore's Diamond, a grand early white	.45	4.50	

If wanted by mail, add 5c each; 25c for 12 plants.

STRAWBERRIES



We handle only varieties that are suitable for western use. They will all self-pollinize.

	Per 12	100	1,000
Aroma, large, medium early	\$0.15	\$0.75	\$5.00
Captain Jack .....	.15	.75	5.00
Senator Dunlap, large, early, all red .....	.15	.75	5.00
Everbearing, "Progressive," produces all through late summer and fall.....	.50	2.75	.....
If by mail, add 10c for 1 dozen; 25c per 100.			

SUMMER BEDDING PLANTS

This stock is grown in greenhouse in 2 2½ inch pots and is ready from early April until in June. If wanted by mail, add 20c per dozen.

	Each	Doz.
Antirrhinum (Snapdragon), Assorted	\$0.20	\$2.00
Asters, Branching, assorted colors .....	.20	2.00
Carnations, assorted colors .....	.20	2.00
Cosmos, early flowering, mixed .....	.20	2.00
Coleus, assorted varieties .....	.20	2.00
Cobaea Scandens, rapid climber, 4-inch pot, each .....	.25	.....
Chrysanthemums, perennial varieties .....	.20	2.00
Daisy, English, double, pink and white .....	.20	2.00
Feverfew, double, white .....	.20	2.00
Forget-Me-Nots, blue .....	.20	2.00
Fuchsias, single and double .....	.20	2.00
Geraniums, single and double, assorted .....	.20	2.00
Heliotrope .....	.20	2.00
Ivy, English and German .....	.20	2.00
Lobelia, blue .....	.20	2.00
Marguerites, white, also yellow .....	.20	2.00
Moonflower, white, 4-inch pot, each .....	.25	.....
Petunias, single, assorted .....	.20	2.00
Petunias, double, from cuttings, 3-inch pots .....	.20	2.00
Phlox, Drummondii, Grandiflora, mixed .....	.20	2.00
Salvia, Scarlet Sage, 3-inch pots .....	.20	2.00
Stocks, German Ten Weeks, mixed .....	.20	2.00
Verbenas, Mammoths, assorted .....	.20	2.00
Violets, sweet scented .....	.20	2.00
Vincas, for hanging baskets .....	.20	2.00

The following can be supplied also in neat baskets, roots wrapped, or in soil.

Alyssum, white, per basket of 12	\$0.75
English Daisy, pink and white, per basket of 6	1.00
Forget-Me-Nots, blue, per basket of 6	1.00
Lobelia, blue, per basket of 6	1.00
Pansy Plants, selected colors, per basket of 12 .....	.60
Pansy Plants, average stock, per basket of 12 .....	.50
Violets, blue, sweet scented, per basket of 6	1.00

Summer Flowering Plants—Tender

All bulbs are prepaid unless notated otherwise.

CALADIUMS

Elephant's Ears

Good averaged size bulbs, dormant; each 20c; 2 for\$0.35

CANNAS

All Up-To-Date Varieties

Prices—Single bulb, 20c; 3 for 50c; 12 for \$1.80.

Austria, bright lemon yellow with red spots.

Flambeau, green foliage, vermilion orange, 5 to 6 feet.

Indiana, orchid flower of fiery, velvety orange, 5 feet.

King of Bronzes, rich red, bronze foliage, 6 to 7 feet.

King Humbert, largest scarlet, streaked gold, 3½ feet.

Louisiana, large, deep, crimson, crinkly edge, 5 to 6 feet.

Mephisto, darkest red of all cannas, 3 to 5 feet.

Moonlight, small, creamy white, green foliage, 4 feet.

Venus, combination of pink and gold, lovely, 3 to 4 feet.

West Grove, deep cerise pink with green foliage, 4 feet.

Unnamed Cannas, in assortment, each, 10c; 12 for 60c.

Order your Canna bulbs early in March and April, thus getting them well started by planting time.



DAHLIAS

NOVELTIES

The Dahlia is one of the easiest plants to grow and will produce more flowers than any other plant in the garden if properly cared for.

The list we have chosen is varied in color and size and includes most of the very recent introductions. The tubers we send out are all good strong tubers and will be carefully marked.

Delice. Exquisite rose pink, free bloomer, 25c each.

Souvenir de Gustave Douzon. A wonderful large flower of intense red, immense double blooms. 25c each.

Twentieth Century. A beautiful single white, with center petals, blush rose. 20c each.

Moonbeam (Decorative). Immense clear canary yellow flowers, free bloomer. 25c each.

Dr. I. B. Perkins (Show). An ideal white, large flower, long stems. 25c each.

Hortulanus Fiet. (Decorative). A colossal flowered variety with blooms over eight inches in diameter, of the most delicate shade of shrimp pink, the tip of each petal barely touched with gold. The entire flower has a suffusion of delicate tints of red and yellow, which gives a glow, yet softness of color difficult to describe. 50c each.

W. W. Rawson. (Show). An exceptionally fine large flower, produced on long stems. Color, pure white, overlaid with delicate lavender. Similar to the popular Grand Duke Alexis, but a better bloomer. 25c each.

Berch Van Heemstede. (Decorative). An extra fine Dahlia of large size, fine form, good stem, and excellent keeping qualities. An early and profuse bloomer. Color, clear, rich yellow. One of the choicest Dahlias. 25c each.

CACTUS VARIETIES

Mrs. H. J. Jones. Salmon red, tipped with white. 25c each.
Chipeta. Mammoth flower, rich amaranth red. 50c each.
Country Girl. Flowers golden yellow suffused with salmon rose. 25c each.

Rheinkonig. An ideal white cactus. Robust, healthy grower, immense snowy white flowers. 25c each.

Kreimhilde. Shell pink, shading to white in the center. 25c each.

Standard Bearer. Rich, fiery scarlet. 20c each.

STANDARD DECORATIVE AND SHOW DAHLIAS

(Each, 20c; Per Doz., \$2.00)

Sylvia. Soft pink with lighter center. Long, stiff stems. A profuse bloomer, fine for cutting.

Mrs. Hartong. Very large and exquisite form. Color, light fawn, suffused with pink. Very handsome.

Jack Rose. Brilliant crimson-red, rich and glowing, similar in shade to the popular Jack Rose, which suggested its name.

Grand Mogul. Scarlet tipped and streaked pure white.

Purple Gem. Rich royal purple, clear and constant. This variety is a decided improvement over the old varieties. A first-class flower.

Queen of Yellows. Fine clear yellow. An early and very prolific bloomer.

Robt. Bloomfield. Pure white, of excellent form. Highly recommended.

A. D. Livoni. Rich pink, finely formed. A very handsome flower.

Lady Mildmay. A very beautiful flower. White ground, shaded to pale lavender. Very large and full. A free bloomer.

Bon Ton. A fine ball-shaped flower of deep garnet red. An extra fine Dahlia.

PEONY-FLOWERED DAHLIAS

Geisha. The showiest and most attractive of this type yet introduced. Petals very long, curved and twisted. A rich combination of scarlet and gold, shaded to amber yellow. A queen among Dahlias, 50c each, \$5.00 per dozen.

Isa. Light fawn pink, changing with age to amber yellow. A free and constant bloomer. Stems very long and wiry. Very attractive for evening decoration. A queenly flower. 50c each, \$5.00 per dozen.

Ouray. Deep blood red. Flower very large and rather loosely constructed. Stems very long. 25c each.

Queen Wilhelmina. Immensely fluffy flower of pure white, yellow center. 25c each.

Bertha Von Suttner. Exceptionally large flowers of a salmon pink color with yellow suffusion. 50c each.

Romola Pizzani. Yellowish salmon, very large and free blooming, on fine stems. One of the best. 25c each.

Sherlock Holmes. Lovely lilac or mauve pink. Stems long and erect. 25c each.

Le Grande Lilas. (Peony Flowered). An immense royal purple, holding its slightly twisted broad petals erect on strong stems often measuring 20 inches long. A wonderful Dahlia. Price \$1.00 each.

Dr. H. H. Rusby. 5 ft. Very large, often 6 to 8 inches in diameter; an early and constant bloomer, producing its immense bright lemon flowers in profusion; plant vigorous and healthy, extra fine. 25c each.

Temptation. 5 ft. Delicate creamy pink shaded to blush; stems long; an excellent cutting variety. 25c each.

DAHLIA COLLECTION

Thirteen Dahlia Bulbs, no two alike, our choice, but not labeled, for \$1.50 postpaid. An immense amount of flowers for the money.

PAEONIES

Fine, hardy plants, rivaling the rose in perfection of bloom, color and fragrance. They are at home in any climate and soil, but thrive best in a deep, rich, well-drained loam. They make a gorgeous display planted in beds, on the lawn, or planted singly along a walk or herbaceous border. The Paeony is perfectly hardy and generally cares for itself, but it does not follow that they enjoy neglect. Give them ample room in which to grow, keeping them free from weeds and grass, and they will amply repay all the care given.

Festiva Maxima. A rare variety of great beauty. Exceedingly showy and of large size. Pure snowy white, flaked with small crimson spots at center. Finest white in cultivation. Each, 50c.

Golden Harvest. Soft pink, cream and gold, and often in the center a dainty festiva maxima, blood drops and all. One of the most prolific and sure bloomers in all the paeony family. Each, 50c.



Queen Victoria. A full, strong, white flower, with yellowish-tinted center. Each, 35c.

Lady Bramwell, Silvery Rose. A most charming flower, perfect in form, compact, symmetrical and exceedingly fragrant. It is one of our fine ones. Each, 50c.

L'Esperence. This is an excellent variety. It is a pink rose in form and fragrance, and is especially valuable in the northern states, as it is a strong, hardy and robust plant, and often is on time for Decoration Day. Each, 35c.

Crimson Queen. Both petals and petaloids are of the same deep color. It is finely fringed, but the whole flower is of that solid, intense coloring. Each, 60c.

GLADIOLUS

All large, healthy, Colorado-grown bulbs, sure to please. Post-paid.

	Each	Doz.
America, soft lavender pink, large	\$0.07	\$0.70
Augusta, white with lavender markings .....	.07	.70
Glory, delicate cream pink, ruffled .....	.10	.75
Mrs. Francis King, intense pink, large .....	.07	.70
Niagara, primrose yellow, penciled carmine .....	.20	2.00
Peace, grandest of all white, large, tall .....	.20	2.00
Princeps, large crimson, white throat .....	.15	1.50
The King, violet specked with crimson .....	.15	1.50

Mixed Gladiolus

Our mixture is a grand assortment; 12 for 50c; 100 for\$2.50

OXALIS

Summer Flowering

White, also pink, separate, per doz.	\$0.30
Dutch Grown; mixed; per doz. ....	.25

TUBEROSES

Our Excelsior Dwarf Pearl are superior. Start early indoors, then replant later: each, 10c; dozen 1.00

Hardy Garden Lilies

All Postpaid.

Auratum or Golden Banded Lily of Japan, large white with crimson spots; each, 25c; 12 for\$2.50

Tigrinum Splendens, Tiger Lilies; each 20c; 3 for 50c; 12 for 1.50

Hardy Perennial Plants

All Postpaid.

These are the popular varieties that do well in our western country. They are 1 and 2 years old.

Prices. Single plant, 20c; 2 for 35c; 12 for \$2.50. No extra charge for postage. When by express not prepaid, larger plants are sent.

- Asters, profuse bloomer, white, bright purple, lavender or red.
- Chrysanthemum, Double, white, pink, yellow or crimson.
- Campanula Media, Canterbury Bell, blue, white and rose.
- Campanula Carpatica, Bellflower, harebell, blue and white.
- Campanula Calycanthema, Cup and Saucer, assorted.
- Columbine, Hybrida, Common, assorted colors.
- Columbine, true Rocky Mountain, 2 and 3 yr. old roots.
- Coreopsis, Lanceolata Grandiflora, a beautiful yellow.
- Delphinium, Belladonna, turquoise blue.
- Delphinium, Formosum, dark blue.
- Digitalis, Foxglove, assorted colors.
- Daisy, Shasta, Alaska, large white.
- Gaillardia, Grandiflora, orange, red, brown and crimson.
- Gypsophila, Paniculata, the well-known Baby's Breath.
- Helianthus Multiflorus, Hardy Sunflower, late bloomer.
- Phlox, all colors.

Poppy, *Orientalis*, large flaming scarlet.
 Pinks, Hardy Garden or Grass Pinks, assorted.
Physostegia, Dragon Head, pink and white.
Platycodon, *Grandiflora*, Album, Giant White Harebell.
Platycodon, *Grandiflora*, Giant Blue Harebell.
Penstemon, Beard Tongue Flower, assorted colors.
Pyrethrum Roseum, Daisy-like flowers.
Rudbeckia, Golden Glow, a popular yellow flower.
 Sweet William, Single and Double, assorted colors.
Statice Latifolia, a popular lavender flower.
Valeriana, Garden Heliotrope, very fragrant.

HARDY HERBACIOUS PERENNIAL PLANTS AND ROOTS

For Permanent Planting in Garden, Borders, Etc.

Bleeding Heart (*Dielytra Spectabilis*). A hardy perennial plant, producing graceful sprays of heart-shaped pink and white flowers. Price; 30c each; 3 for 80c.

Columbine (*Aquilegia Caerulea*). The beautiful native species, of the Rocky Mountains. Very broad flowers, three inches or more in diameter. The outer petals and long spurs are deep blue, center of flower creamy white. Grand for cutting or border work. Thrives best in the shade. Price, 25c each.

Gysophila Paniculata (*Baby's Breath*). A beautiful perennial, possessing a grace not found in any other perennial, and attracting the eye of everyone. For cutting purposes it is exquisite, especially in combination with high-colored flowers, and some most lovely effects can be produced with it. Price, 25c each.

Golden Glow (*Double Rudbeckia*). This is decidedly one of the brightest and most showy among the hardy plants, and of the easiest culture possible. Six to eight feet high, producing numerous stems which are laden with double golden-yellow flowers, in size and general appearance resembling a cactus Dahlia. Price, 20c each.

Garden Pinks. (*Dianthus*). All colors mixed. A very hardy perennial and popular among flower lovers. Start a bed from our hardy year-old roots. Postpaid, 20c each, 12 for \$2.00.

Iris—Flag Lily. This is one of the most desirable summer flowering plants. They bloom in June and July and because of the great range of color are also known as "Rainbow Flower." Each, 20c; 3 for 50c; 12 for \$1.80.

Hollyhocks, (*Double Strong Field Roots*). As a background in large borders or beds of the lower growing herbaceous plants there is nothing better. The flowers, which are as elegant in shape as the camelia, form perfect rosettes of the most lovely shades. Separate colors in red, white, yellow, pink and maroon. Price, 20c each; 2 for 35c; \$1.80 per doz.

Oriental Poppy. This poppy is perfectly hardy. Its large, orange-scarlet flowers make it one of the most showy of all plants. Price, 20c each; \$2.00 per dozen.

Phlox (*Perennial*). It is of the easiest culture, and a good selection of colors once planted will continue to produce a wealth of flowers for many years without further care. Price, 20c each; 2 for 35c; \$2.00 per doz.

Sweet William. A general favorite with all. Mixed colors only; strong plants. Price, 20c each; 2 for 35c; \$2.00 per doz.

Shasta Daisy "Alaska". A very hardy variety, with large, handsome, white flowers. Very free bloomers. 20c each.

Popular Climbers from Bulbs

Tender and semi-hardy varieties that do well in Colorado. All postpaid.

Cinnamon Vine, green, glossy foliage; grows 15 to 20 feet;	
each, 15c; 3 for 40c; 12 for	\$1.25
Maderia Vine, waxy green leaves, fast grower, tender; each,	
5c; 12 for .....	.70

Hardy Climbing Vines

No extra charge will be made for any of these hardy climbers by mail. You should order liberally.

Ampelopsis Quinquefolia, Virginia Creeper, a very quick grower; each	\$0.75
Ampelopsis Veitchii, Boston Ivy; small foliage and clings to walls; each	1.50
Begonia Radicans, the popular Trumpet Creeper	1.00
Clematis, Jackmanii; beautiful large purple flower	2.00
Clematis Paniculata, small, white; each	1.25
Honeysuckle, Japan (Halleana), pure white flowers, changing to yellow; each	1.25
Honeysuckle, Scarlet Trumpet, red; each	1.25
Wistaria Vine, purple, each	1.50
Wistaria Vine, white; each	1.50

Hardy Flowering Shrubs

These are all field-grown, 2 years old, well rooted; should be transported by express; if must go by mail, the average cost is 15c each extra.

Almond, Double Flowering, rosette blossoms, pink; each	\$1.50
Almond, Double Flowering, rosette blossoms, white; each	1.50
Almond, Double Flowering, rosette blossoms, red; each	1.50
Althea, Rose of Sharon, double red, purple and white; each	1.50
Butterfly Plant, a new, beautiful shrub producing many purplish flowers on stems; each	1.50
Calycanthus, Strawberry Shrub, double, fragrant; each	1.50
Hydrangea Paniculata Grandiflora, pinkish white; each	1.50
Honeysuckle Tartarian, red; each	2.00
Honeysuckle Tartarian, white; each	1.50
Lilac, Purple, the common purple variety; each	1.00
Lilac, White, a beautiful clear white; each	1.00
Lilac, Persian White, profuse bloomer; each	2.00
Lilac, Persian Red, a bright color; each	2.00
Spirea, Bridal Wreath, Prunifolia; each	1.50
Spirea Van Houttei, pure white flowers; each	1.50
Snowball, Common, the popular white flower; each	1.00
Snowball, Japanese, large beautiful white; each	1.50

HARDY EVER-BLOOMING ROSES



All outdoor-grown, two-year old stock, and many are on their own roots. Ready in March, April and May.

Prices—Single rose, \$1.00; 3 for \$2.50. If wanted by mail, add 5c each; 10c for three plants.

Reds

American Beauty, bright crimson, large and fragrant.

Gen. Jacqueminot, crimson, large and fragrant.

Ulrich Brunner, large cherry red, fine form.

Pinks

Magna Charta, bright rose pink, very fragrant.

Paul Neyron, deep rose, large and very hardy.

White

Frau Karl Druschki (White American Beauty) snow white.

Madam Plantier, pure white, sweet scented, very hardy.

Yellow

Yellow Persian, old-fashioned, semi-double, yellow.

DWARF ROSES

Suitable for pots and border bedding.

Crimson Baby Rambler, a wonderful little rose.

Pink Baby Rambler, like above except in color.

White Baby Rambler, pure white and very fragrant.

HARDY CLIMBING ROSES

Crimson Rambler, bright crimson flowers in clusters.

Dorothy Perkins, beautiful deep pink borne in clusters.

Baltimore Belle, blush white, very hardy.

Yellow Rambler, bright yellow, changing to canary yellow.

Climbing American Beauty, same color, size and fragrance as American Beauty, but of climbing habit; price, \$1.50 each.

GRASS AND FIELD SEEDS

Values in this line are constantly changing. We give prices here for small quantities. However, when orders are filled we will give customer benefit of the lowest market. Let us quote prices when you are ready to buy quantities.

If by mail, add postage at the regular zone rate.

All our seeds are tested. Prices subject to market changes.

SEEDS FOR THE LAWN

Capitol Lawn Grass Mixture. Our best mixture of suitable grasses and White Clover; 1 lb., 45c; 5-lb. sack, \$2.00; 10 lb. sack, \$ 3.80

Kentucky Blue Grass. Fancy, re-cleaned grade; 1 lb., 45c; 5 lbs., \$2.00; 10 lbs., \$3.90; 25 lbs., 9.50

White Clover, Fancy Dutch. (Supply is very limited.) ¼ lb., 25c; ½ lb., 50c; lb.,85

Blue Grass and White Clover. Mixed in suitable proportions. 1 lb., 55c; 5 lbs., 2.50

English Blue Grass. (Meadow Fescue). Very hardy; lb., 50c; 3 lbs., \$1.40; 10 lbs., 4.20

Perennial Rye Grass, Australian. Suitable for lawns; lb., 25c; 5 lbs., \$1.00; 10 lbs., 1.80

GRASS SEEDS

	Per lb.	10lbs.	25lbs.
Timothy, choice western seed	\$0.20	\$1.60	\$3.75
Red Top, fancy hulled .....	.25	2.25	5.50
Orchard Grass, choice .....	.30	2.80	6.75
Brome Grass, Awnless, drouth resister .....	.30	2.90	7.00
Sudan Grass, The new great forage crop for dry lands .....	.20	1.50	3.50

ALFALFAS AND CLOVERS

Seamless sacks charged for extra at 65c each.			
Alfalfa; Fancy Domestic	\$0.30	\$2.80	\$6.50
Alfalfa; Choice, on application.			
Alfalfa; Grimm's Hardy or Everlasting .....	.85	8.30	20.00
Alfalfa; Turkestan .....	.35	3.40	8.00



Red Clover, Western grown .....	.50	4.80	11.75
Alsike Clover; Swedish Clover, Northern .....	.60	5.80	14.25
Sweet Clover; White, hulled .....	.40	3.25	6.25
Sweet Clover; Unhulled, clean .....	.25	2.40	6.00
Sweet Clover; yellow .....	.40	3.80	9.25
Crimson Clover .....	.25	2.40	6.00

MILLETS

Colorado Golden; dry land, very hardy	\$0.10	\$0.75	\$1.75
Siberian; Very early .....	.10	.75	1.75
Manitoba or Hog; Large seed .....	.10	.75	1.75
Liberty; Fine for hay .....	.10	.75	1.75

FORAGE AND FODDER PLANTS

	Per lb.	10lbs.	25lbs.
Early Amber Cane	\$0.10	\$0.75	\$1.25
Feterita .....	.10	.75	1.25
Kaffir Corn, white .....	.10	.60	1.00
Milo, yellow .....	.10	.60	1.00
Milo, Dwarf, Straight Neck .....	.10	.75	1.25
Essex Rape, imported .....	.20	1.25	.....
Vetches, Spring .....	.20	1.75	.....

GRAIN SEEDS

Postage Extra at Zone Rates

Seamless Sacks extra at 65c each. Gunny bags extra at 20c each.

	Per lb.	10lbs.	25lbs.
Wheat, Pedigreed Defiance	\$0.60	\$1.75
Wheat, Macaroni, for dry land60	1.75
Wheat, Marquis, new, from Dakota60	1.75
Wheat, Fall—Turkey Red75	1.75
Wheat, Fall—Kanred	1.00	2.00
Barley, Scotch60	1.50
Barley, White, Hulless75	1.75
Barley, California Feed60	1.50
Oats, Swedish Select60	1.75
Oats, New Market60	1.75
Oats, Early Kherson, Dry land seed60	1.75
Spring Rye, dry land seed75	1.75
Fall or Winter Rye .....	.10	.75	1.75
Speltz, or Spring Emmer70	1.50
Flax, recleaned seed .....	.20	1.50	3.50
Buckwheat .....	.10	.80	1.75

MISCELLANEOUS FIELD SEEDS

	Per lb.	10lbs.	25lbs.
Beans, Navy, white	\$0.15	\$1.40	\$3.50
Beans, Mexican or Pintos .....	.15	1.00	3.25
Beans, Tepary, new, small, white .....	.15	1.25	2.75
Black Eyed Peas .....	.20	1.75	3.75
Peas, Colorado Field .....	.10	.75	1.75

Peas, Southern Whippoorwill .....	.20	1.50	3.50
Broom Corn, Oklahoma Dwarf .....	.10	.75	1.50
Sunflower, Mammoth Russian .....	.25	2.00	-----
Peanuts, Spanish .....	.30	2.50	-----
Peanuts, Virginias .....	.30	2.50	-----

GRASS SEED SOWERS—We carry an assortment from \$1.00 to \$4.50 each. See page 41.

TESTED SEED CORN

Price: Single lb., 10c; 10 lbs., 75c. If wanted by mail, add postage.

White Australian. 90-day flint, endures drouth well.

Minnesota No. 13. Yellow Dent; early and good yielder.

Swadley—90-day dent. Second choice for hardiness.

Colorado Yellow Dent. 90-day dent; suitable for Colorado.

Calico. 90-day hardy; kernels are vari-colored.

Pride of the North. 95-day dent; yellow.

Iowa Silver Mine. 100-day white dent; heavy yielder.

Golden Nugget. Colorado grown; large yellow kernel; long cob.

THE ROTARY CORN PLANTER (Diamond) will save you much time in planting and costs only \$2.15. Weight 8 lbs.

SEED POTATOES



It is too early in the season to make prices for large lots. Small quantities we can supply as follows: 3 lbs., 25c; 10 lbs., 75c; postage extra.

Early Ohio. Pink skin, oblong; early and reliable.

Russet or Netted Burbank. Oblong; heavy producer.

Red Peachblow or Red McClure. General crop variety.

Red River. Early Ohios; Minnesota grown.

Early Triumph. A good red variety.

FERTILIZERS

Red Snapper Plant Food. 8 oz. can, 25c; 2 lb. can, 50c.

Ivy Lawn Fertilizer, contains 5 per cent ammonia, 9 per cent available phosphoric acid, 1 per cent potash, with other valuable plant foods; 10 lbs., 50c; 25 lbs., \$1.15; 50 lbs., \$1.50; 100 lb. sack,\$2.50

Fine Bone Meal, an excellent fertilizer, especially for Sweet Peas; same price as Ivy Lawn Fertilizer.

Vegetable Grower, suitable for all garden crops, etc.; 25 lbs., \$1.15; 50 lbs., \$1.50; 100 lb. sack, 2.50

Sheep Manure, pulverized, pure; 50 lb. sack, 80c; 100 lb. sack 1.40

P. H. Plant Food, for house plants; 10 oz. can, 10c; 20 oz. can .15

Sterlingworth Plant Tablets, dissolve in water; trial size, 10c medium size (100 tablets), each, postpaid..... .25

Nitrate of Soda; lb., 20c 2 lbs., 35c; 10 lbs., 1.65

PEST EXTERMINATORS

Peerless Bed Bug Killer. Easy to apply; per bottle (cannot be mailed)\$0.35

Creosote. Kills dandelions; ½ gal. can 50c; gal.90

Poisoned Wheat. 1 oz. pkg., 15c; ¼ lb. pkg.,35

Sterlingworth Weed Killer. In cans, 40c; by mail50

Cut Worm Killer. A prepared powder. 1 lb. can, 35c; 5 lbs. 1.25

Rat Corn. It mummifies them; per can, 25c; by mail28

Rat Mum. In cakes; kills and embalms; per cake15

Peterman's Roach Food. 2 oz. pkg., 15c; 4 oz. pkg.,25

Peterman's Ant Food. 2 oz. pkg., 15c; 4 oz., pkg.,25

Knocks-Them-All-Spray. Exterminates cock roaches, bed bugs, moths, roaches, lice, mites, fleas, etc. Does not stain linen. Pt. can, 40c; qt., 75c; ½ gal., \$1.45; gal. 2.45

Whitaker's Dip and Disinfectant. A coal tar product, soluble in water; pt. can, 40c; qt. can, 75c; ½ gal. can, \$1.10 gal.,	1.75
Dead Shot. For bed bugs, cock roaches and other vermin; ½ pt. can, 25c; pt. can .....	.50
Rat Biscuit Paste. In tube; 25c each; by mail .....	.30
Please note liquids cannot be mailed.	

INSECTICIDES

Our goods all comply with requirements of the United States Insecticide Laws. Liquids should be sent by express.

Arsenate of Lead, Powder form; ½ lb., 35c; lb., 75c; 5 lbs., \$3.00; 10 lbs., \$4.80; 25 lbs., \$10.00; 50 lbs., \$19.00; 100 lbs., \$36.00
Bowkers Pyrox, Paste; 1 lb. jar, 50c; 5 lb. drum, \$2.25; 50 lbs., \$12.50; 100 lbs., 22.50
Corona Dry Powdered Arsenate; 1 lb., ..... .90
Calcium Arsenate; 1 lb. pkg., ..... .50
Paris Green; ¼ lb. pkg., 25c; ½ lb. pkg., 40c; lb. pkg., 75c; 2-lb. pkg., \$1.45; 5 lb. pkg., (not by mail) 3.00
Formaldehyde, standard strength; lb. bottle, (can't be mailed) ..... .75
Blue Vitrol, sulphate copper; lb. 25c; 5 lbs., 1.15
Dry Bordeaux Mixture; 1 lb., ..... .40
Kerosene Emulsion, liquid; qt., 50c; ½ gal., 90c; gal. 1.25
Coroleum. Trial bottle, 30c; pt., 50c; qt., 90c; 2 qts., \$1.15; gal., 1.75
Lime and Sulphur Solution. Qt., 50c; gal., 90c; 5 gals. 4.00
Whale Oil Soap (Fish Oil); lb. carton, 30c; 5 lb. box 1.10
Grafting Wax; ½ lb., 25c; 1 lb. .... .50
Carco—to eradicate Cut Worms; qt. can, 1.00
Red Snapper Plant Soap; 8 oz. pkg. .... .25
Magic Sticky Tree Cord; per pkg., ..... .25
Magic Sticky Fly String; per pkg. .... .15
Persian Insect Powder; 1 oz., 15c; ¼ lb., 50c; ½ lb., ..... .90
Fir Tree Oil; ½ pt. can, ..... .75
Slugshot, Hammond's; lb., 20c; 5 lb. pkg., by express 65c; 10 lbs., 1.25
Devoe's "Sure Noxem," dry powder form; 1 lb. carton, ..... .20
Sulphur, Powdered, Fine; lb., 15c; 4 lbs., ..... .50
Tobacco Dust; lb., 10c; 5 lbs., 50c; 10 lbs., ..... .85
White Hellebore; ½ lb. pkg., 50c; 1 lb. pkg., ..... .90

SPRAYERS AND SPRAY PUMPS

No. 1B. Auto Compressed Air Sprayer. Capacity 5 gallons; galv. tank; each \$8.50
With brass tank, each 10.50
No. 5. Auto Brass Sprayer. For use in barrel or bucket; each 5.00
Galv. tank for No. 5 Auto Sprayer; to carry on back; each 4.00
Junior Bucket Pump. Brass; each 3.75
Madox Bucket Pump. Brass; double action; good for white-washing; each 4.50
No. 3 Brandt Galv. Compressed Air Sprayer. Complete; each 7.50
Brandt Easy Compressed Air Hand Sprayer. Galv.; each 3.50
Same with Brass tank; each 4.50
No. 22A. Hand Sprayers; tin; each ..... .85
No. 25A. Auto Hand Sprayer. Galv. Tank and 2 nozzles; each 1.50
No. 25C. Same; all brass; each 1.75
No. 1. Plain Top Scollay Sprayer; each 1.00
No. 1. Angle Neck Scollay Sprayer; each 1.15
No. 3 Plain Top Scollay Sprayer; each 1.00
No. 4 Plain Top Scollay Sprayer; each ..... .75
Novelty Whitewash Pumps; 4 nozzles; tin; each 1.00
Duster Brown's Dry Powder Duster; each 2.00
Insect Powder Bellows; each ..... .20



PROTECTS YOUR CROPS
against the ravages of the
Root Maggot, Earth Worm
and other pests and en-
ables you to grow
successfully

RADISHES CABBAGE
KALE ONIONS
TURNIPS
CAULIFLOWER, Etc.

Price; 2 lb. pkg., 35c; 4 lbs., 60c; 8 lbs., \$1.00; postage extra.

DANDELION DESTROYER TOOLS

Dandy Dandelion Destroyer, a brass tube carrying liquid that is injected into the roots; each	\$1.75
"Erado" Dandelion Digger, has tube for creosote or other liquid, Style A, galvanized cylinder; each	.75
Simplex Dandelion Puller; it clamps, then pulls; each	.75
Dandelion Knife, long blade; each 40c; by mail	.45
Dandelion Rakes, 18 inch; each	1.50
Noncross Hand Cultivators, 3 prong, each	.85
Noncross Hand Cultivators, 5 prong; each	1.25

LAWN TOOLS, ETC.

Grass Trimming Shears. Good steel, high grade; each	\$1.25
Common grade	.35
Miniature Scythe, or Grass Hook. Each	.75
Turf Edger; long handle; each	1.15
Hose Washers. Regular size, per doz	.05
Cooper Hose Menders. Brass; $\frac{1}{2}$ and $\frac{3}{4}$ inch; each	.10
Perfect Clinch Hose Menders; $\frac{1}{2}$ and $\frac{3}{4}$ inch; each	.15
Perfect Clinch Hose Couplings; $\frac{1}{2}$ and $\frac{3}{4}$ inch; each	.35
Brass Hose Couplings; $\frac{1}{2}$ and $\frac{3}{4}$ inch; per set	.30
California Hose Holders; each	.25
$\frac{5}{8}$ -inch 4-ply "Puritan" Rubber Hose; per 50 feet, with couplings	7.00
$\frac{3}{4}$ -inch 5-ply "Cord" Rubber Hose; per 50 feet, with couplings	7.50
$\frac{5}{8}$ -inch 4-ply "Puritan" Rubber Hose; per 50 feet, with couplings	8.00
$\frac{3}{4}$ -inch 5-ply "Cord" Rubber Hose; per 50 feet, with couplings	8.50
$\frac{5}{8}$ -inch 5-ply Rubber Hose—Non-Kinkable, on reel; per foot	.18
Twin Lawn Sprinklers, each	.45
Boston Nozzle. Brass; adjustable; each	1.00
Myers Lawn Sprinklers; 36-inch; each	1.00
Handy Sprinklers. Brass; each	.50
Hawthorn Sprinklers, each	.90

SHEARS AND PRUNERS

Tree Pruners. Rhodes Pattern, 26-inch; strong; each, \$3.50; 30 inch	3.75
Orchard King. Roller bearing, cut up to 2-inch; each	3.00
Kansas Pruning Shears. 7 feet, automatic; each	3.00
9-inch Wiss Hand Pruners; best made; each	3.25
10-inch Wiss Hand Pruners; best made; each	3.75
California Hand Pruners; each	1.25
Cronk's No. 17 Hand Pruners, each	1.50
No. 14 Hand Pruners; each	.40
6-foot Jackson Tree Pruners; each	1.50
8-foot Jackson Tree Pruners; each	2.00
10-foot Jackson Tree Pruners; each	2.50
12-foot Jackson Tree Pruners; each	2.75
Extra Knives for Jackson Pruner; each	.25
Bateman Pruning Hooks, long handle; each	.50
Tyler Pruning Saws (folds up); each	1.00
Double Edge Pruning Saw, 18-inch; each	2.00

HAND WEEDERS

Lang's, a very useful small tool; each, 20c; by mail	\$0.30
Hazeltine's, larger than Lang's; each	.65
Excelsior, has five teeth; each	.15
Midget, hand-weeder; each	.50
Combination Hoe and Cultivator	.50
Handy Weeders; each	.25

THERMOMETERS

Greenhouse, carefully tested, 10-inch case; each	\$1.25
Mushroom or Hotbed, No. 5981; 16-inch, wood frame, brass pointed, high grade; each	2.00
Maximum and Minimum; each	2.50

LABELS

	Per 12	100
Pot, 4 inch, plain	\$0.05	\$0.25
Pot, 5 inch, plain	.05	.30
Pot, 6 inch, plain	.05	.35
Pot, 8 inch, plain	.10	.45
Garden Stake Labels, 12-inch, plain	.15	.80
Tree, copper wired, plain	.05	.45

FLOWER POTS AND SAUCERS

	Pots—Standard	Each	Per	
Size 2 inch diameter	\$0.03	12	\$1.00
Size 2½ inch diameter03	25	1.50
Size 3 inch diameter05	30	2.00
Size 4 inch diameter05	35	2.60
Size 5 inch diameter10	75	5.25
Size 6 inch diameter15	1.00	7.50
Size 7 inch diameter15	1.50	11.00
Size 8 inch diameter20	2.00	15.00
Size 10 inch diameter40	4.00	31.00
Size 12 inch diameter	1.00	8.40	.....
Standard Saucers			12	100
Size to fit 4 inch pot	\$0.15		\$1.10
Size to fit 5 inch pot20		2.25
Size to fit 6 inch pot30		3.25
Size to fit 7 inch pot60		5.25
Size to fit 8 inch pot90		6.50
Size to fit 10 inch pot	1.75		13.00



Neponset Waterproof Fiber Flower Pots

	12	100	1,000
Size 2¼ inch, 1,000 in crate	\$0.15	\$0.75	\$7.00
Size 2½ inch, 1,000 in crate	.15	.90	7.50
Size 3 inch, 1,000 in crate	.20	1.25	10.00
Size 3½ inch, 1,000 in crate	.30	1.50	13.00

Natural sheet Moss, for lining Hanging Baskets; ¼ lb., 15c; ½ lb., 25c; lb., 45c.

IMPLEMENTS

Standard Garden Cultivator. High Wheel, wood handles	
5 tools; each	\$5.50
5-tooth Adjustable 1-Horse cultivator and Lever	7.50
14-tooth Adjustable 1-Horse Combined Harrow and Cultivator	7.50
7-tooth Adjustable Spring Tooth 1-Horse Harrow	9.00
Extra guage wheel for above	1.25
Horse Hoe Attachments for 5-tooth Cultivators; per set	1.75
Extra Levers for 5-tooth Cultivators; each	1.00
Cahoon Patent Hand Seed Sower. Weighs 9 lbs., each	4.50
The Cyclone Hand Seeder. Weighs 5 lbs., each	2.00
Lightning Seed Sowers; each	1.00
Diamond Rotary Corn and Bean Planter; 8 lbs., each	2.15
Aeme Corn Planter. Adjustable; 7 lbs., each	1.50
Black Hawk Grist Mill. Weighs 18 lbs.; each	4.00
Apache Grist Mill, with balance wheel; each	9.00
Black Hawk Corn Sheller. Weighs 15 lbs.; each	4.00

BIRD AND FISH SUPPLIES

Bird Seed Mixture in bulk; 1 lb., 20c; 5½ lbs.,	\$1.00
Canary Seed, re cleaned; 1 lb.,	.25
Hemp Seed; 1 lb.,	.20
Rape Seed, imported; 1 lb.,	.20
Large Millet, 1 lb. 10c; 4 lbs.,	.25
Sunflower for Parrots; 1 lb., 25c; 2 lbs.,	.45
Cuttle Bone, per piece, 5c; 1 oz.,	.10
Bird Gravel from Atlantic Ocean, white; per pkg	.20
Bird Manna, ready to attach to cage; each 20c; 2 for	.35
Kaempfer's Birdoline, per pkg,	.25
Kaempfer's Song Restorer, per pkg.,	.25
Kaempfer's Bird Lice Powder, per pkg.	.20
Excelsior Bird Nesting, per pkg.,	.15
Wire Bird Nests, with swivel, each	.25
Lined Bird Nests, each	.50
Sterlingworth Song Restorer, per pkg.,	.25
Sterlingworth Bird Tonic, per pkg.,	.25
Sterlingworth Fish Food Flakes, per pkg.,	.15
Sterlingworth Natural Fish Food, per pkg.,	.15
Kaempfer's Prepared Fish Food, per pkg.,	.15

DOG AND CAT REMEDIES

Spratt's Anti-Vomit, tablets	\$0.60
Spratt's Constipation Tablets	.60
Spratt's Digestive Tablets	.60
Spratt's Distemper Tablets	.90
Spratt's Dog Vermifuge	.60
Spratt's Mange Remedy; per bottle	.60
Spratt's Dog Soap; per cake	.25
Sterlingworth Mange Remedy, per bottle	.50
Catnip Mice, each	.10
Catnip Leaves, per pkg.,	.10
Spratt's Puppy Cakes; lb., 20c; 2 lbs.,	.35
Spratt's Dog Cakes; lb., 20c; 2 lbs.,	.35
Spratt's Fibo, for dogs, per pkg.,	.50
Austin's Dog Bread, bulk; lb., 20c; 2 lbs.,	.35
Austin's Puppy Cakes, bulk; lb., 20c; 2 lbs.,	.35
"Old Grist Mill" Cat Bread; per pkg.,	.25

Iron Age

Iron Age Seeders and Wheel Hoes enable you to garden farm-like, but without a horse. They need no introduction to farmers and market gardeners who market for profit, and they are equally well-known to small gardeners who garden merely for the pleasure of it—folks who want their own fresh vegetables every day.

These tools are pushed ahead, a step and a thrust, as you walk upright. The tiresome, back-bending work that takes the pleasure out of gardening is done away with entirely. If the tools you want are not shown here, write us or call for the complete Iron Age Garden Tool Booklet.

NO. 306 HILL AND DRILL SEEDER, SINGLE AND DOUBLE WHEEL HOE



The "Complete Gardener" many thoroughly practical tools in one. This tool not only plants in drills, but can be set to drop any amount of seed in hills, 4, 6, 8, 12, or 24 inches apart. As a seeder it opens the furrow, deposits the seed, in either hills or drills, covers the seed, packs the soil, and marks the next row at one operation. Adjustable index permits the operator

to use his own judgment as to quantity of seeds planted. Seed shut off on handle close to finger-tips. The agitator is a brush of selected bristles which separates the seed and acts as a gentle yet positive force feed. This agitator, insuring a perfect planting with no damaged seed, is one of the outstanding features of great importance. Difficult seed such as tomatoes and beets are easily separated and continuously fed into the discharge, even to the last thimbleful.

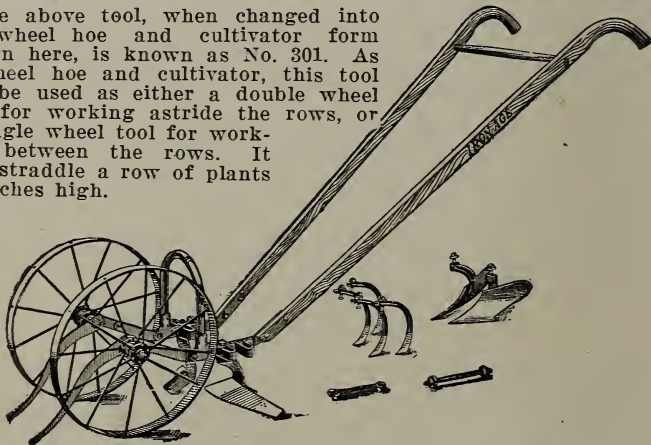
Frames of all IRON AGE Tools shown here are made of steel. The long, hardwood handles fit the hands naturally. Frames are adjustable to height of operator. Large, easy-running steel wheels.

The entire seeder attachment comes off in one piece by simply removing two bolts, changing the tool into a No. 301 Wheel Hoe or Cultivator.

Price, F. O. B. Denver\$21.50

NO. 301 SINGLE AND DOUBLE WHEEL HOE

The above tool, when changed into the wheel hoe and cultivator form shown here, is known as No. 301. As a wheel hoe and cultivator, this tool can be used as either a double wheel tool for working astride the rows, or a single wheel tool for working between the rows. It will straddle a row of plants 20 inches high.



The change from double to single wheel form is easily and quickly made. Tools furnished are adjustable on the frame to suit the width of rows and kind of work to be done. Opens and closes furrows, ridges crops, cultivates, hoes to or from plants, pulverizes and levels the soil, etc. The seed hopper used on the No. 306 can be obtained at any time for this tool, converting it into the complete combination tool No. 306 as described above.

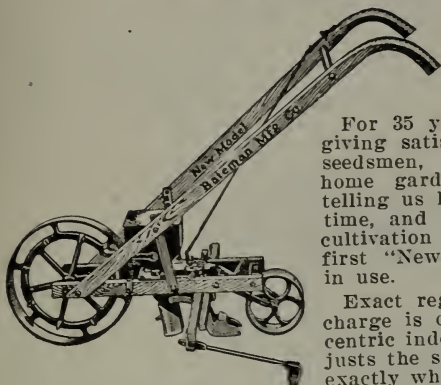
Prices: No. 301, complete as shown\$13.00

No. 303, same as 301, but without side hoes and vine lifters 9.00

F. O. B. Denver

IRON AGE

"NEW MODEL" SEED DRILL



For 35 years this drill has been giving satisfaction to thousands of seedsmen, market gardeners and home gardeners, and all join in telling us how it saves seeds, saves time, and makes better and easier cultivation possible. Many of the first "New Model" drills are still in use.

Exact regulation of the seed discharge is obtained by using an eccentric index or indicator which adjusts the slide for the seed opening exactly where it is wanted. The in-

dex is in plain sight, and the names of principal seeds are shown on it—no reference table is necessary. Flow of seed can be instantly stopped for turning at ends of rows. Capacity of hopper is two quarts. Row marker can be worked from either side.

Price: F. O. B. Denver

\$14.50

NO. 19C WHEEL CULTIVATOR AND PLOW



This tool is equipped with a landside plow, scuffle hoe, two separate cultivator teeth, and set of cultivator teeth on bracket. It will do the necessary plowing in many soils, opens furrows, for seed or fertilizer, and covers on the return trip. A distinctive feature of this tool is its high steel wheel—24 inches. The frame

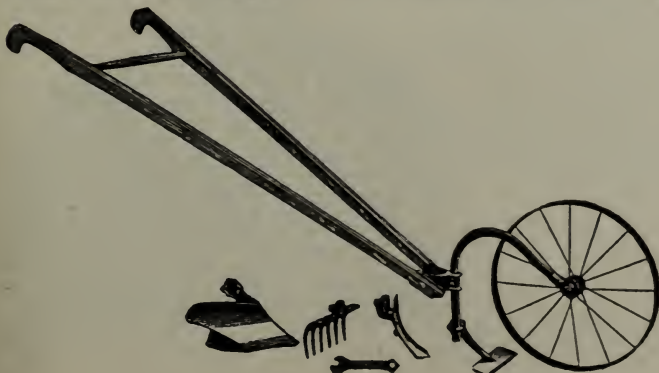
is all steel; compact, light and durable. The working tools are attached in position easily and are adjustable. The plow turns a good furrow and is used for ridging or hilling the plants. Price: F. O. B. Denver, \$7.00.

NO. 12 WHEEL PLOW AND CULTIVATOR

Has four working tools as shown in the illustration. It will plow in all but hard ground, open furrows and cover them, hill growing crops, hoe, rake, and cultivate. It is easy to manage. The average net weight with one working tool is about eight pounds, and it is easily carried wherever you want to work. The No. 12 is low priced, but complete in itself for the work to be done. This tool can be used to advantage in stirring the soil in poultry yards. The wheel is 16 inches in diameter. The arch is a steel tube, attached to a malleable frame.

Price: F. O. B. Denver

\$6.75



QUEEN INCUBATORS



Stop Hatching Weak Chicks with cheap incubators. A Queen costs but little more, and the extra chicks that live and grow soon pay the difference.

Remember, it is not how many chicks you hatch that counts, but how many you raise. Chicks that hatch out weak and wobbly, and live but a few days, mean nothing to you but trouble and loss.

Most of the chicks you lose in the first few weeks die because they did not have, when hatched, enough strength or vitality for a good start.

Queen Chicks Live and Grow

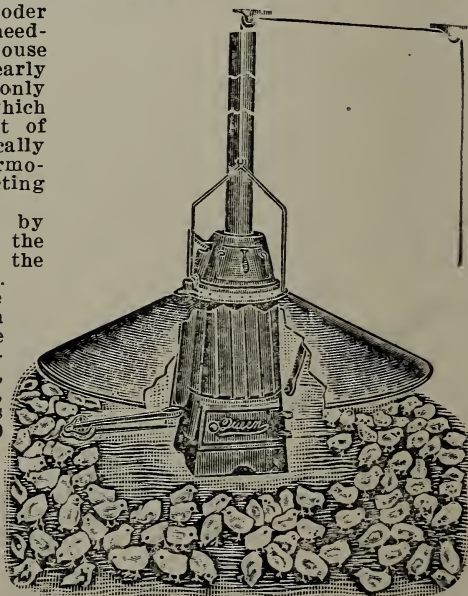
Queen Incubators are famous the country over for big hatches of strong, healthy chicks that live and grow. The Queen is accurately regulated, keeping the temperature just right for the hatching chick. No hot and cold changes to weaken the chick's system. The Queen is properly insulated—two layers of wood and one of corrugated strawboard, with dead air space. This also helps to maintain an even temperature for the entire hatching period. Both Queen walls are built of genuine California Redwood, which is unusual in these days of imitation and cheap substitution.

Redwood does not absorb the odor from the hatching eggs. Cheaper woods, and pasteboard lining in iron and tin machines, retain the odors, to weaken and kill the hatching chick.

Queen Brooder Stoves

The Queen Brooder Stove is just what is needed to keep the house comfortable for the early chicks. It is the only Brooder Stove in which both fire and amount of heat are automatically controlled by one thermostat and one connecting rod.

Damper indicated by arrow regulates the check draft and the direct draft to the fire. Gas controlled above deflector. No gas can escape below to injure chicks. Hover is collapsible, made in sections, easy to put together, and take apart. Holds enough coal to last 40 to 48 hours.

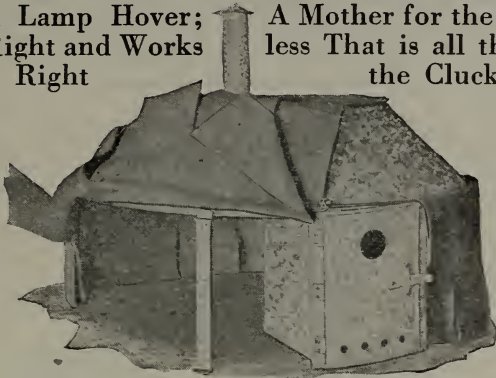


No. 1—600 Chick Capacity	\$25.50
No. 2—1200 Chick Capacity	31.50

QUEEN PERFECTION HOVER

A Real Lamp Hover;
Built Right and Works
Right

A Mother for the Mother-
less That is all there but
the Cluck



This Hover is built of only the best known grades of material. We have tested it with a real QUEEN hatch of real live chicks and we know it works to perfection. It is built all of heavy guage galvanized iron. Has a proper distribution of heat and for one hundred to one hundred and fifty chicks it is the ideal equipment. It has a thirty inch hover. Price; \$21.50.

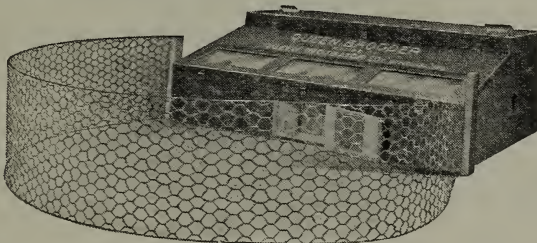
SIZES AND PRICES OF QUEEN INCUBATORS AND BROODERS

No. 1—85 egg capacity, wt., 72 lbs.....	\$30.00
No. 2—135 egg capacity, wt., 87 lbs.....	43.50
No. 3—180 egg capacity, wt., 138 lbs.....	51.50
No. 4—275 egg capacity, wt., 142 lbs.....	65.00
No. 5—400 egg capacity, wt., 171 lbs.....	77.50

Larger sizes quoted on application.

Made By Queen Incubator Co.

No. A—Lincoln, 85 egg capacity	16.50
No. B—Lincoln, 135 egg capacity	20.50
No. C—Lincoln, 160 egg capacity	27.50
No. 7—Indoor Brooder, 125 chick size	22.50
No. 8—Indoor Brooder, 165 chick size	26.00
No. 9—Indoor Brooder, 250 chick size	29.00
No. 10—Outdoor Brooder, 125 chick size	36.00
No. 11—Outdoor Brooder, 165 chick size	39.50
No. 12—Outdoor Brooder, 250 chick size	43.00



Queen Indoor Brooder

EXTRAS FOR INCUBATORS AND BROODERS

Lamp Bowls for No. 2 Burners, galv.; each	\$1.10
Lamp Bowls for No. 3 Burner, galv.; each	1.25
Lamp Burners, No. 2, brass; each .....	.60
Lamp Burners, No. 3, brass; each .....	.85
Wicks, common, for all sizes; each .....	.05
Wicks, red felt, both sides; 3 for (postpaid) .....	.10
Zero Safety Lamps, galvanized, each	2.00
Egg-O-Hatch—For improving the hatch by weakening the shell and makes stronger chicks; per jar sufficient for 600 eggs .....	.50

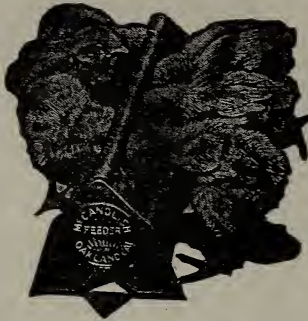
THERMOMETERS

Incubator, "Tycos"—Triangle; each	\$1.00
Incubator, "Tycos"—Triangle; on legs	1.10
Incubator, "Tycos"—Triangle, Certified; each	1.25
Mushroom or Hot Bed, No. 5981—16-inch wood frame, brass pointed, high grade; each (not prepaid)	2.00
Wires for holding Incubator Thermometers; each .....	.10
Brooder, "Tycos"—Mounted, "Read Easy"; each .....	.75
Brooder—mounted on wood; each .....	.40
Brooder, flat—unmounted; each .....	.45
Hygrometer, "Tycos"—Complete, ready to use; each	1.50
Hygrometer "Mandy Lee"; each	2.50
Electric Lighted with Battery—To illuminate face of thermometer in incubator; per set	2.50
X-Ray Egg Tester—Tin. Fits to No. 2 or No. 3 lamp burner .....	.30
Moe's Egg Tester—each .....	.25

McCandlish Improved Chick Feeder

Equipped with Adjustable Partitions for Various Kinds of Feed.
Made of Galvanized Iron; No Rough Edges; Waste
Impossible; Can't Capsize.

PATENTED JULY 17, 1917 -- NO. 1234054



AN IDEAL DRINKING RECEPTACLE ALSO

Lengths 12, 20 and 30 in.; Prices: 40, 60 and 85 Cts.
Revolving rod prevents the chicks from perching upon it,
making the feeder ABSOLUTELY SANITARY.

CHICK MARKERS—All Postpaid

Petty Perfect Poultry Punch; each	\$0.25
Acme Lever, spring lever; each .....	.30
Model Toe Marker, cuts very clean; each .....	.50

LEG BANDS—All Postpaid

Champion Aluminum, flat, numbered, plain; 12 for 20c; 25 for 35c; 50 for 60c; 100 for	\$1.50
Smith Sealed, fine for show bird, no duplicate numbers; 12 for 40c; 25 for 75c; 50 for \$1.10; 100 for (postpaid)	2.00
Sealers for same; each .....	.60
Double Clinch Aluminum Bands; 12 for 20c; 25 for 35c; 50 for 60c; 100 for (postpaid)	1.50
Celluloid, in five colors, three sizes, not numbered; 12 for 25c; 24 for 45c; 50 for 85c; 100 for	1.50
Spir-O-lets, for baby chicks and pigeons, all colors; 12 for 15c; 24 for 25c; 50 for 45c; 100 for .....	.80
Victor, Wide Aluminum, large colored figures; 12 for 50c; 25 for \$1.00; 50 for \$2.00; 100 for	3.75

NEST EGGS

Porcelain; each, 5c; 6 for	\$0.25
Medicated Naptha; each, 10c; 3 for .....	.25
Nest Eggs by mail, 1c each extra.	

FEED AND WATER VESSELS—GALVANIZED

Grit and Shell Box. Large size, 3 comp., round bottom.....	\$1.25
Food Hopper. Self feeding, 2 comp.	1.25
Dry Mash Hopper. Moes, 12-inch wide	2.50
Dry Mash Hopper. Moes, 24-inch wide	4.00
Square Drop Bottom Fount. 2 qt. size .....	.75
Square Drop Bottom Fount. 1 gal size	1.00
Square Drop Bottom Fount. 2 gal. size	1.25
N. W. Mason Jar Holder. 5-inch size; each .....	.15
N. W. Mason Jar Holder. 6-inch size; each .....	.20
Kant Klog Mason Jar Feeder. Each .....	.25
Atsatt Wall Feed Troughs, 24-inch wide; each.....	.75
Atsatt Chick Feeders. Flat bottom; each .....	.50
Atsatt Poultry Feeders. Flat bottom; each	1.00
Atsatt Adjustable Dry Mash Feeder; each	2.00
Galv. Wall Chick Feeders, 24-inch wide; each	1.25
Galv. Drinking Cups for Exhibition Coops; each .....	.25
Star Mason Jar Chick Feeders; each .....	.20
Round 2-piece Chick Feeders, 14 holes; each .....	.40
Moe's Trap Nest Ends. Galv., each 60c; 2 for	1.00
Moe's Rabbit Feeder, for Alfalfa. Galv. and wire; each	1.00

Here Is the Feeder and the Fountain

for which every poultryman has been looking.

It combines all the good qualities of the ordinary Mason Jar fountain and feeder with the good qualities of the best baby chick feeders on the market. The bottom of the feed pan slopes from the center to the edges, thereby insuring a free flow of feed from the jar to the edge of the pan, where the chicks can reach it through the openings. The small openings prevent the dirt from getting into the pan,—prevent the chicks from getting into the feed or water and prevent them from crowding too close around the feeder, thereby giving the weaker chicks an equal chance with the stronger ones. This overcomes every objection to the ordinary open pan Mason Jar feeder and fountain. It fits any Mason Jar. The top of the pan can be removed in a second to clean and fill. It is the most inexpensive, most practical and most sanitary feeding and watering device on the market and is fully covered by U. S. letters of patent.



3 Pans Postpaid 75c



4 Pans Postpaid \$1.00

EGG SHIPPING BOXES

Diamond Safe Delivery. 1 doz. size; each	\$0.30
Diamond Safe Delivery. 2 doz. size; each	.45
Diamond Safe Delivery. For hatching eggs; 15-egg size; each	.30
Diamond Safe Delivery. For hatching eggs; 25-egg size; each	.45
Diamond Safe Delivery. For hatching eggs; 30-egg size; each	.50
Diamond Safe Delivery. For hatching eggs; 50-egg size; each	.90
Farmer's Friend Egg Carrier. Made of wood, painted; 12-doz. size; each	1.15

EGG CARTONS

"Ranger," stock print, holds 12 eggs, folds; 12 for 25c; 24 for 45c; 50 for 80c; 100 for \$1.50; 250 (original bale) for...\$3.75
Postage on Cartons by mail extra. 12 weigh 1½ lbs.

EGG PRESERVERS

Water Glass Egg Preserver—This is the true Silicate Soda refined. We put this up in convenient packages. Can't be mailed. Per pint, enough for 12 doz. eggs, 35c; qt., 65c; ½ gal., \$1.00; 1 gal.	\$1.75
Fleming Egg Preserver. A salve to apply on each egg; guaranteed to preserve eggs nine months; medium jar enough for 50 doz. eggs, 90c; small jar	.50
Lee's Egg-O-Latum. Simply rubbed on, it keeps eggs fresh for one year. Full directions with each jar. Per jar, enough for 50 doz. eggs (postpaid)	.55

STRICTLY HIGH CLASS POULTRY BOOKS ON PRACTICAL SUBJECTS

We recommend the following poultry books on practical, successful poultry and egg production as being unexcelled, down-to-date, and well worth the prices.

American Standard of Perfection, latest edition	\$2.50
Bantam Fowl, 68 pp., illus.	.50
Belgian Hare Guide	.25
Chick Book, 80 pp.	.50
Egg Record and Account Book, very useful	.25
A to Z of Pigeons, 96 pp., illustrated	.75
Rabbit Culture and Standard; illustrated, revised edition, leather binding	1.25
Poultry Houses and Fixtures, Location, Plans, etc., by H. W. Jackson	1.00
How to Feed Poultry for Any Purpose with Profit, by J. H. Robinson	1.25
Artificial Incubating and Brooding, by Homer W. Jackson	1.00
Use of Artificial Light to Increase Winter Egg Production, by G. M. Curtis	1.50
Successful Back Yard Poultry Keeping, by H. W. Jackson	1.00
Profitable Culling and Selective Flock Breeding, by H. W. Jackson and G. M. Curtis	1.50
The Chick Book, by Frank C. Hare	.50

POPULAR BOOKS OF STANDARD BREEDS OF POULTRY

To all who wish to have reliable knowledge and sound advice on the selection, mating and breeding of the best known, most popular breeds and varieties of standard fowls, including chickens, turkeys, ducks and geese, we recommend the following books:

	Price Postpaid
The Plymouth Rocks, Barred, White, Buff, etc., by Wm. C. Denny	\$1.00
The Wyandottes, Silver, White, Buff, etc., by J. H. Drevenstedt	1.00
The Rhode Island Reds, Single and Rose Comb, by D. E. Hale .....	.75
The Leghorns, White, Brown, Black, Etc., by J. H. Drevenstedt	1.00
The Campines, Golden and Silver, by F. L. Platt .....	.75
The Orpingtons, White, Buff, Black, Etc., by J. H. Drevenstedt .....	.75
The Asiatics—Brahmas, Cochins and Langshans .....	.50
Turkeys: Their Care and Management .....	.75
Ducks and Geese, Complete Guide to Breeding, by Robert H. Essex .....	.75

LICE KILLER AND DISINFECTANTS

Pratt's Lice Killer Powder—Medium size, 35c; large size.....	\$0.65
Pratt's Liquid Lice Killer—Qt., 60c; 2 qts., 90c; gal.	1.50
Pratt's Head Lice Ointment—Small tin, 20c; large tin .....	.35
Conkey's Lice Powder—large size .....	.60
Conkey's Head Lice Ointment—Small tube, 15c; large tube (postpaid) .....	.30
Creosote—½ gal., 50c; gal. cans .....	.90
Lee's Insect Powder—Medium size, per can, 30c; large size....	.60
Lee's Lice Killer—Liquid: qts., 60c; 2 qts., 90c; gal.	1.50
Persian Insect Powder—Pure; 1 oz., 15c; ¼ lb., .....	.50
Pratt's Red Mite Special; qt. can, .....	.70
Sturtevant's Lice Paint; qt. can, 60c; 1 gal.	1.50
Sturtevant's Louse Powder—Pepper box top; per pkg. ....	.35
Dr. Hess Instant Louse Killer—Powder: 1 lb. pkg. ....	.35
Dr. Hess Instant Louse Killer—Powder; 2½ lb. pkg. ....	.65
Dr. Hess' Dip and Disinfectant—Pint bottle, .....	.60
"Klix"—Kills lice on chicks; 7 oz., pkg., 35c; 16 oz., pkg., ...	.65
Tobacco Dust—Helps to keep down lice; lb., 10c; 5 lbs. 50c; 10 lbs., .....	.85
Fumigating Candles—Tin plate with each cake; each, 20c; 2	.35
Pratt's Poultry Disinfectant—Qt. can, 70c; ½ gal.,	1.25
Pratt's Germ-a-thol—A household disinfectant; per bottle	.60
Conkey's Nox-i-cide; pt. can, .....	.50
Coroleum—Liquid Disinfectant, Lice Killer and also Sheep Dip; 8-oz. bottle, 30c; pt. bottle, 50c; qt. can, 90c; ½ gal. can, \$1.15; gal can	1.75
Lime for whitewashing poultry houses; 5 lbs for .....	.25
Whittaker's Dip and Disinfectant—Pt. can, 50c; qt. can, 90c; ½ gal. can, \$1.15; 1-gal. can	1.75
Pinola Disinfectant—Fine for rabbit hutches; per quart can	1.00

EGG FOODS AND TONICS

Dr. Hess' Pan-a-cea—1½ lb. pkg., 35c; 3 lb. pkg., 70c; 25 lb. pail	3.50
Pratt's Poultry Regulator—26-oz. pkg., 35c; 4 lb. pkg., 65c; 9 lb. pkg., \$1.35; 25 lb. pail	3.50
Lee's Egg Maker—Concentrated; 2 lb. pkg., 50c; 5 lbs., \$1.00; 12 lb. pail, \$2.25; 25 lb. pail	4.25
Bovier's Specific—For snuffles in rabbits; per can, 30c; large size .....	.60
Sturtevant's Poultry Tonic—Keep flocks healthy and cures diseases; 19-oz. pkg., 35c; 42-oz. pkg. ....	.65
More Egg—Our own preparation to make hens lay and keep flock in healthy condition; in bulk, per lb., 20c; 2 lbs. ....	.35
Reefer's Moregg Tablets—Per pkg. ....	.50

POULTRY REMEDIES

Pratt's Roup Remedy—Small size pkg., 30c; medium size pkg.	\$0.60
Pratt's White Diarrhoea Remedy—30c and .....	.60
Pratt's Chicken Cholera Remedy—30c and .....	.60
Pratt's Brochitis Remedy—30c and .....	.60
Pratt's Scaly Leg Remedy—.....	.30
Conkey's Gape Remedy—Per pkg. ....	.60
Conkey's Pox Sorehead Remedy—per pkg. ....	.60
Conkey's Limberneck Cure—Per pkg. ....	.60
Lee's Germozone—Liquid (can't be mailed), 4-oz., bottle, 40c; 12-oz. bottle, 75c; 32-oz. bottle	1.50
Lee's Germozone—Tablet form (postpaid); each .....	.75
Oculum—A scientific preparation for killing disease germs and also promotes egg production. Full directions with each bottle. Trial size, 10c; 50c and	1.00
Haines' Limberneck Remedy—per pkg. (postpaid) .....	.60
Pratt's Condition Tablets—2 sizes, 30c and .....	.60
Dr. Hess' Roup Remedy—Small pkg., 30c; large size .....	.60

SUNDRY ARTICLES FOR HORSES AND STOCK

Pratt's Fly Chaser; qts., 60c; 2 qts., 90c; gal	\$1.50
Conkey's Fly Knocker—Qt., .....	.75
Sturtevant's Gall Salve—Per pkg., 2 sizes, 30c and .....	.60
Sturtevant's Healing Powder—2 sizes, 30c and .....	.60
Pratt's Healing Powder—4-oz. pkg. ....	.30
Pratt's Cow Remedy—2-lb. pkg. ....	.70
Pratt's Hog Cholera Specific—2-lb. pkg. ....	.60
Pratt's Heave, Cough and Cold Remedy—14-oz. pkg. ....	.70
Pratt's Worm Powder—10-oz. pkg. ....	.70
Pratt's Animal Regulator—2 sizes, 35c and .....	.65
Pratt's Healing Ointment—Per pkg., 35c and .....	.65
Pratt's Bag Ointment—Per pkg., 35c and .....	.65
Pratt's Hoof Ointment—Per pkg., .....	.35
Pratt's Veterinary Colic Remedy—2 sizes, per bottle, 70c and	1.35
Pratt's Spavin Remedy—Liquid, each .....	.70
Pratt's Distemper Cure—Per pkg. ....	.70
Lee's Best Conditioner—2-lb. pkg. ....	.50
Lee's Worm Remedy—Per pkg. ....	.35
Sturtevant's Horse Colic Remedy—Liquid; per bottle	1.25
Sturtevant's Hoof Oil—Per small can, .....	.60
Sturtevant's Cough Cure—Per pkg. ....	.60
Sturtevant's Kidney Cure—Per pkg. ....	.60
Prussian Barbed Wire Liniment—Liquid, per bottle .....	.70

NOTICE

A war tax of 1c for each 25c in value must be added to catalogue price on all medicines, tonics, and remedies for poultry, stock, birds or pet stock. This goes to the government and does not increase our profit on such articles.

POULTRY FEEDS AND MIXTURES

THE ORIGINAL HOYT'S MIXTURE

The Best Balanced Dry Food For Chicks.

This is our own formula; beware of imitations. In Hoyt's Mixture we know we have a food far superior to any other chick feed on the market. It is made from the best of seed grain; in fact, every grain that is put in this food would grow if planted. Hoyt's Mixture is a perfect chick food. It contains all the necessary ingredients that a chick needs until it is two months old. Hoyt's Mixture will prevent bowel trouble and all other chick complaints. It is used by almost every poultry raiser in Colorado. We have never had a single complaint against it; everyone pronounces it a wonderful food. Price: 4-lb. pkg., 25c; 9 lbs., 50c; 25-lb. sack, \$1.40; 100-lb. sack, \$5.00.

DEVELOPING FOOD

Has no equal for growing chicks. A mixture of small grains, beef scraps, charcoal and other ingredients for the quick growth of poultry. Should be fed as soon as chicks get too large to eat our Hoyt's Mixture. Price: 4 lbs., 25c; 9 lbs., 50c; 25 lbs., \$1.40; 100 lbs., \$5.00.

MIXED HEN FEED

This is a balanced food of mixed grains for laying hens. It contains bone, sunflower and mixed grains of different kinds in suitable proportions to promote egg yield. The variety of grains, bone, etc., being of different size induces fowls to scratch more, and as exercise is necessary to promote digestion they will be kept strong and vigorous. Market price.

EGG MASH

A Carefully Balanced Mash Food for Eggs and Feather Making

Having had many years' experience in Colorado, we feel that we are familiar with the needs and requirements of our Western poultry breeders, and in offering this mash we know we are offering a high-grade article that gives favorable results. A trial will convince the most skeptical that this food is an egg-producer. Market price.

"MORE EGG"

Is a condition powder for promoting the general health and acts as a gentle stimulant to the egg-producing organs of fowls. It is the best condition powder on the market. Composed of sixteen different ingredients for the purpose of putting fowls in perfect health and egg-laying condition. This is our own mixture and is highly recommended. Price: 1 lb., 20c; 2 lbs., 35c; 6 lbs., \$1.00.

PACKING HOUSE POULTRY FOODS

Prices Subject to Change

	Per 50	Per 100
Green Cut Bone—Dried and Granulated, hen and chick size; 4½ lbs., 25c; 9 lbs., 50c; 20 lbs., \$1.00	\$2.20	\$4.25
Green Cut Meat and Bone—Dried; our stock has fully 40 per cent protein; best food for the price. 4½ lbs., 25c; 9 lbs., 50c; 17 lbs., \$1.00	2.25	4.25
Poultry Bone—Granulated; first grade, hard, white, clean bone, about size of wheat; 3 lbs., 25c; 7 lbs., 50c; 17 lbs., \$1.00	2.75	5.40
Bone Meal—For Chicks, and Mash, first grade, clean; 3 lbs., 25c; 7 lbs., 50c; 17 lbs., \$1.00	2.75	5.40
Meat Meal—Very concentrated food, 50% protein; 4 lbs., 25c; 8 lbs., 50c; 18 lbs., \$1.00	2.40	4.70
Blood Meal—Carries 80% protein, for feeding in mash, a true "Red Albumen"; 3 lbs., 25c; 6½ lbs., 50c; 14 lbs., \$1.00	3.40	6.50
High Protein Meat Scraps—Highly concentrated food, running 60% protein, fine in a mash; 3 lbs., 25c; 7 lbs., 50c; 15 lbs., \$1.00	2.75	5.40

MISCELLANEOUS POULTRY FOODS

Crushed Oyster Shell—Necessary to every fowl; 3 lbs., 15c; 8 lbs., 25c; 18 lbs., 50c;	\$1.10	\$2.00
Poultry Grit—Gray granite, very hard and sharp; 3 lbs., 10c; 10 lbs., 25c; 25 lbs., 50c .....	.85	1.40
Charcoal—Coarse, medium and fine; 1 lb., 10c; 3 lbs., 25c; 7 lbs., 50c;	2.50	5.00
Ground Oil Cake—Fine; 3 lbs., 25c; 7 lbs., 50c; 15 lbs., \$1.00 .....	.....	.....
Cotton Seed Meal—High per cent of protein; 3 lbs., 25c; 7 lbs., 50c; 15 lbs., \$1.00 .....	.....	.....
Flax Seed Meal—Pure ground flax seed; 1 lb., 25c; 2 lbs., 45c .....	.....	.....
Poultry Mustard—In bulk, per lb .....	.....	.60
Poultry Pepper—1 lb., 35c; 2 lbs., .....	.....	.65
Alfalfa Meal—Green, fine; 5 lbs., 25c; 12 lbs., .....	.....	.50

INDEX

NOT TO BE SET TILL AFTER MADE UP.

INOCULATE YOUR ALFALFA, CLOVERS, COW PEAS, SOY
BEANS, VETCHES AND ALL OTHER LEGUME
CROPS WITH

MULFORD CULTURES

for Legumes

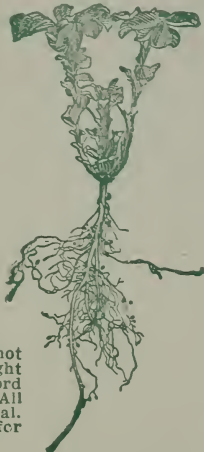
Small Cost Large Returns Easy to Use No Labor Expense

Mulford Cultures contain pure, tested strains of active, vigorous nitrogen-fixing bacteria, for inoculating seeds of legumes or soil.

Mulford Cultures are scientifically prepared and tested with the utmost care and skill. Enormous numbers of these very valuable and desirable bacteria are thus available to you in every package of Mulford Culture and may readily be applied to your seed. The sealed bottle insures purity.



Alfalfa plant on left not inoculated. Plant on right inoculated with Mulford Culture for Alfalfa. All other conditions identical. This contrast speaks for itself.



Legumes offer the best-known means of maintaining soil fertility and rejuvenating over-cropped and worn-out fields. They add both humus and nitrogen to your soil and thus increase your yield of wheat, cotton, corn and other non-legume crops.

The U. S. Department of Agriculture and many State Agricultural Experiment Stations recommend inoculation of legumes with nitrogen-fixing bacteria to induce a prompt "catch" and increase your yield.

Mulford Cultures are only prepared for

ALFALFA
CRIMSON CLOVER
SWEET CLOVER
RED CLOVER
ALSIKE CLOVER
BURR CLOVER

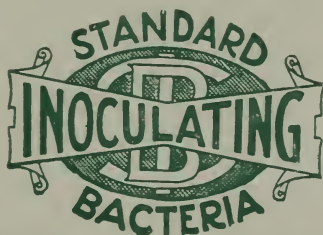
COW PEAS
SOY BEANS
PEANUTS
VETCH
VELVET BEANS
SWEET PEAS

GARDEN PEAS
GARDEN BEANS
LIMA BEANS
LESPEDeza
BEGGAR WEED
and others

Always specify on your order what crop you want to inoculate, as there is a different strain of bacteria for each legume.
PRICES: 5-acre size, (A Dollar an Acre), \$5.00; 1-acre size, \$1.50; 1/4-acre size, 50c. Small size (Supplied only in four varieties, for Garden Peas, Garden Beans, Lima Beans and Sweet Peas), 25c.

These prices include delivery.

FREE DESCRIPTIVE FOLDER SENT UPON REQUEST



HASTENS MATURITY

IMPROVES THE FEEDING VALUE

ENRICHES THE SOIL

BUILDS UP THE LAND

INCREASES THE YIELD

Easy to Apply—Simply Moisten the Seed Before Sowing.
Full Directions in Every Package.

ALFALFA
RED CLOVER
FIELD BEANS
VETCH
GARDEN BEANS

Prepared for
SWEET CLOVER
COW PEAS
CRIMSON CLOVER
CANADA PEAS
SOY BEANS
ALSIKE CLOVER
NAVY BEANS
SWEET PEAS
GARDEN PEAS
and all other legumes.

Special Mixture for all Garden Beans and Peas.

PRICES

Garden size	\$0.50
1-acre size .....	.75
2-acre size	1.45
4-acre size	2.25
6-acre size	3.00

By Mail, 5c extra per acre.

SPECIAL NOTICE

When ordering state crop to be inoculated as there is a different bacteria for each legume.

Applied direct to seed. Directions in each package.

Increase your crops—the world needs the food—INOCULATE.



SUDAN GRASS

COLORADO GROWN SEED

1 lb., 20c; 10 lbs., \$1.50.

Campbell Printing Co., Des Moines, Iowa.